SAMSUNG

SM-T705

User Manual

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www.samsung.com

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Troubleshooting

Read me first

Please read this manual before using the device to ensure safe and proper use.

- Descriptions are based on the device's default settings.
- Some content may differ from your device depending on the region, service provider, or device's software.
- Content (high quality content) that requires high CPU and RAM usage will affect the overall performance of the device. Apps related to the content may not work properly depending on the device's specifications and the environment that it is used in.
- Samsung is not liable for performance issues caused by apps supplied by providers other than Samsung.
- Samsung is not liable for performance issues or incompatibilities caused by edited registry settings or modified operating system software. Attempting to customise the operating system may cause the device or apps to work improperly.
- Software, sound sources, wallpapers, images, and other media provided with this device are licensed for limited use. Extracting and using these materials for commercial or other purposes is an infringement of copyright laws. Users are entirely responsible for illegal use of media.
- You may incur additional charges for data services, such as messaging, uploading and downloading, auto-syncing, or using location services depending on your data plan. For large data transfers, it is recommended to use the Wi-Fi feature.
- Default apps that come with the device are subject to updates and may no longer be supported without prior notice. If you have questions about an app provided with the device, contact a Samsung Service Centre. For user-installed apps, contact service providers.
- Modifying the device's operating system or installing softwares from unofficial sources may result in device malfunctions and data corruption or loss. These actions are violations of your Samsung licence agreement and will void your warranty.

Instructional icons



Warning: situations that could cause injury to yourself or others



Caution: situations that could cause damage to your device or other equipment



Note: notes, usage tips, or additional information

Getting started

Package contents

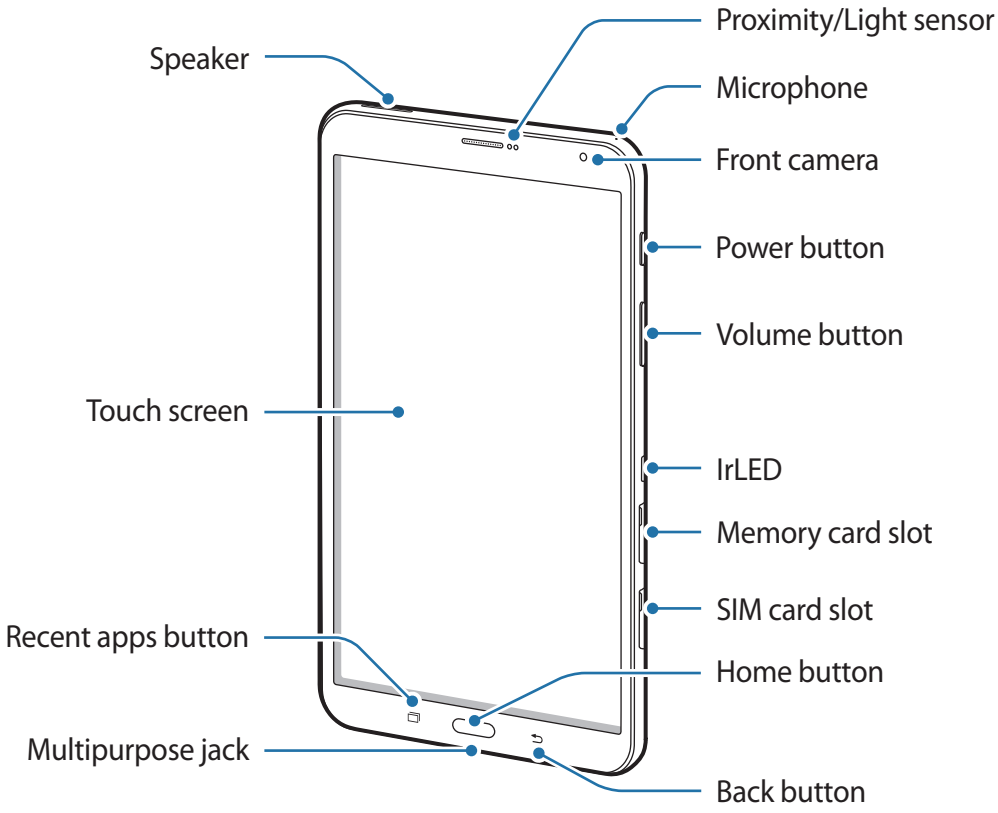
Check the product box for the following items:

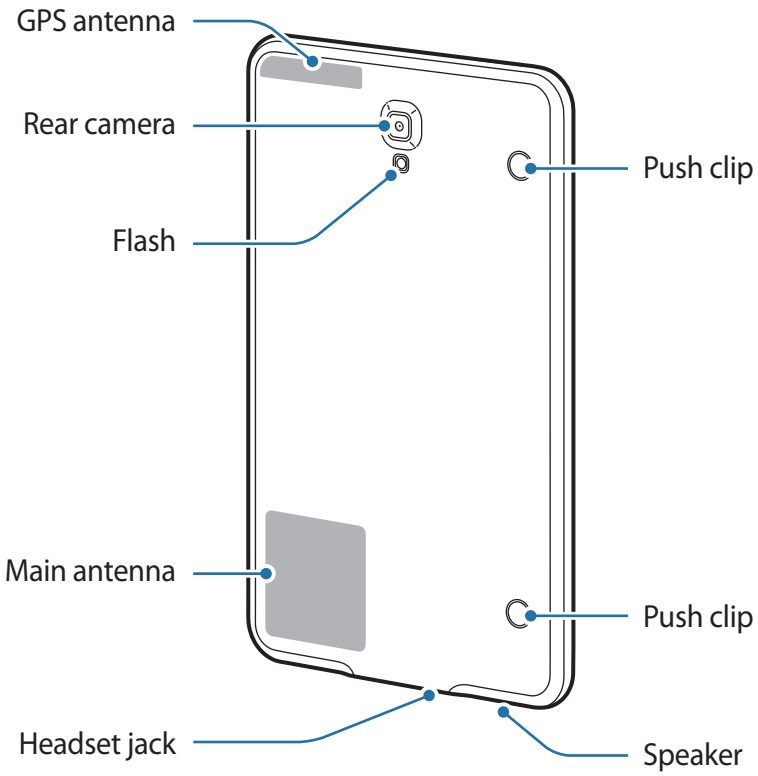
- Device
- Quick start guide



- The items supplied with the device and any available accessories may vary depending on the region or service provider.
- The supplied items are designed only for this device and may not be compatible with other devices.
- Appearances and specifications are subject to change without prior notice.
- You can purchase additional accessories from your local Samsung retailer. Make sure they are compatible with the device before purchase.
- Use only Samsung-approved accessories. Malfunctions caused by using unapproved accessories are not covered by the warranty service.
- Availability of all accessories is subject to change depending entirely on manufacturing companies. For more information about available accessories, refer to the Samsung website.

Device layout





- Do not cover the antenna area with your hands or other objects. This may cause connectivity problems or drain the battery.
- Do not use a screen protector. This causes sensor malfunctions.
- Do not allow water to contact the touch screen. The touch screen may malfunction in humid conditions or when exposed to water.

Buttons

Button	Function
Power	• Press and hold to turn the device on or off. • Press to turn on or lock the screen.
Recent apps	• Tap to open the list of recent apps. • Tap and hold to access additional options for the current screen.
Home	• Press to turn on the screen while the screen is locked. • Press to return to the Home screen. • Press twice to launch **S Voice**. • Press and hold to launch **Google**.
Back	• Tap to return to the previous screen.
Volume	• Press to adjust the device volume.

Using the SIM or USIM card and battery

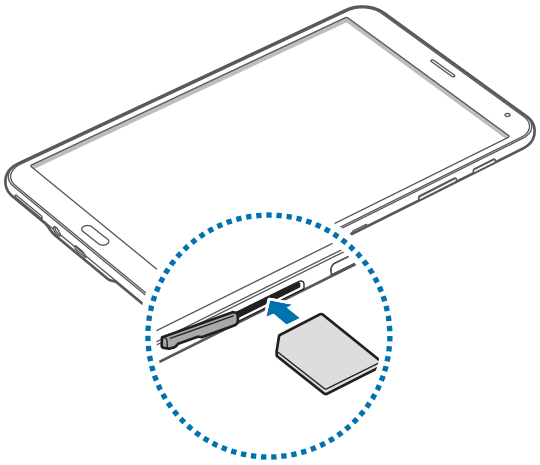
Installing the SIM or USIM card

Insert the SIM or USIM card provided by the mobile telephone service provider.

- Only microSIM cards work with the device.
- Some LTE services may not be available depending on the service provider. For more information about service availability, contact your service provider.

1 Open the cover of the SIM card slot.

2 Insert the SIM or USIM card with the gold-coloured contacts facing downwards.



3 Push the SIM or USIM card into the slot until it locks in place.

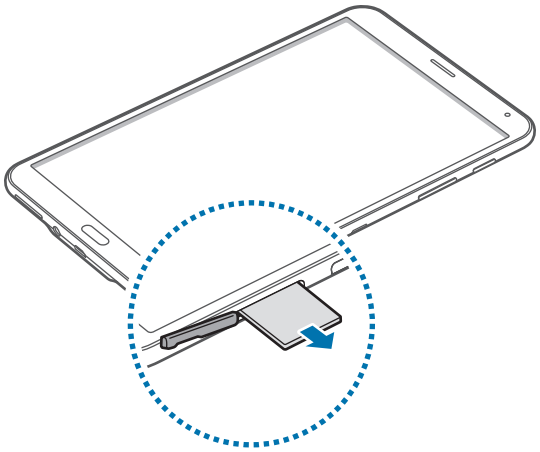
- Do not insert a memory card into the SIM card slot. If a memory card happens to be lodged in the SIM card slot, take the device to a Samsung Service Centre to remove the memory card.
- Use caution not to lose or let others use the SIM or USIM card. Samsung is not responsible for any damages or inconveniences caused by lost or stolen cards.

4 Close the cover of the SIM card slot.

Removing the SIM or USIM card

1 Open the cover of the SIM card slot.

2 Push the SIM or USIM card until it disengages from the device, and then pull it out.



3 Close the cover of the SIM card slot.

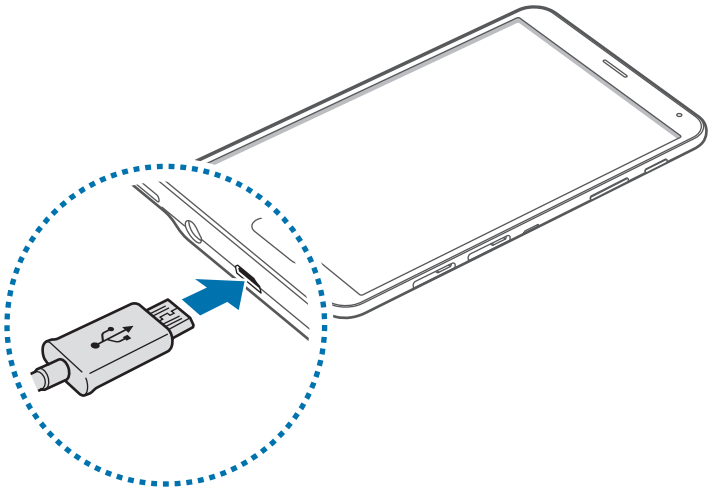
Charging the battery

Use the charger to charge the battery before using it for the first time.

Use only Samsung-approved chargers, batteries, and cables. Unapproved chargers or cables can cause the battery to explode or damage the device.

- When the battery power is low, the battery icon appears empty.
- If the battery is completely discharged, the device cannot be turned on immediately when the charger is connected. Allow a depleted battery to charge for a few minutes before turning on the device.
- If you use multiple apps at once, network apps, or apps that need a connection to another device, the battery will drain quickly. To avoid disconnecting from the network or losing power during a data transfer, always use these apps after fully charging the battery.

Connect the USB cable to the USB power adaptor and then plug the end of the USB cable into the multipurpose jack.



Connecting the charger improperly may cause serious damage to the device. Any damage caused by misuse is not covered by the warranty.

- The device can be used while it is charging, but it may take longer to fully charge the battery.
- If the device receives an unstable power supply while charging, the touch screen may not function. If this happens, unplug the charger from the device.
- While charging, the device may heat up. This is normal and should not affect the device's lifespan or performance. If the battery gets hotter than usual, the charger may stop charging.
- If the device is not charging properly, take the device and the charger to a Samsung Service Centre.

After fully charging, disconnect the device from the charger. First unplug the charger from the device, and then unplug it from the electric socket.

To save energy, unplug the charger when not in use. The charger does not have a power switch, so you must unplug the charger from the electric socket when not in use to avoid wasting power. The charger should remain close to the electric socket and easily accessible while charging.

Reducing the battery consumption

Your device provides options that help you save the battery power. By customising these options and deactivating features in the background, you can use the device longer between charges:

- When you are not using the device, switch to sleep mode by pressing the Power button.
- Close unnecessary apps using the task manager.
- Deactivate the Bluetooth feature.
- Deactivate the Wi-Fi feature.
- Deactivate auto-syncing of apps.
- Decrease the backlight time.
- Decrease the screen brightness.

Using a memory card

Installing a memory card

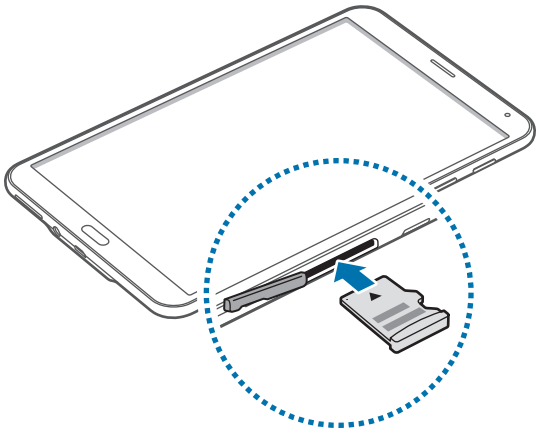
Your device accepts memory cards with maximum capacities of 128 GB. Depending on the memory card manufacturer and type, some memory cards may not be compatible with your device.

- Some memory cards may not be fully compatible with the device. Using an incompatible card may damage the device or the memory card, or corrupt the data stored in it.
- Use caution to insert the memory card right-side up.

- The device supports the FAT and the exFAT file systems for memory cards. When inserting a card formatted in a different file system, the device asks to reformat the memory card.
- Frequent writing and erasing of data shortens the lifespan of memory cards.
- When inserting a memory card into the device, the memory card's file directory appears in the **My Files** → **SD card** folder.

1 Open the cover of the memory card slot.

2 Insert a memory card with the gold-coloured contacts facing downwards.



3 Push the memory card into the slot until it locks in place.

4 Close the cover of the memory card slot.

Removing the memory card

Before removing the memory card, first unmount it for safe removal. On the Home screen, tap → **Settings** → **General** → **Storage** → **Unmount SD card**.

1 Open the cover of the memory card slot.

2 Push the memory card until it disengages from the device, and then pull it out.

3 Close the cover of the memory card slot.

Do not remove the memory card while the device is transferring or accessing information. Doing so can cause data to be lost or corrupted or can damage to the memory card or device. Samsung is not responsible for losses that result from the misuse of damaged memory cards, including the loss of data.

Formatting the memory card

A memory card formatted on a computer may not be compatible with the device. Format the memory card on the device.

On the Home screen, tap ⋮⋮⋮ → **Settings** → **General** → **Storage** → **Format SD card** → **Format SD card** → **Erase everything**.

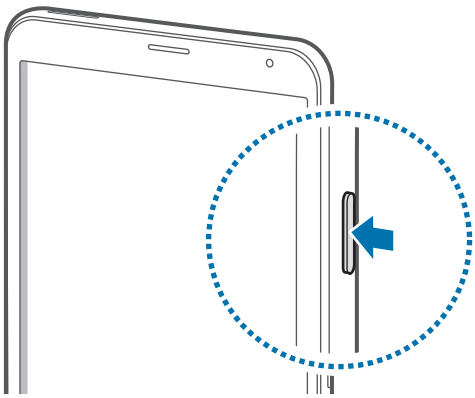
Before formatting the memory card, remember to make backup copies of all important data stored in the device. The manufacturer's warranty does not cover loss of data resulting from user actions.

Turning the device on and off

Press and hold the Power button for a few seconds to turn on the device.

When you turn on your device for the first time or after performing a data reset, follow the on-screen instructions to set up your device.

To turn off the device, press and hold the Power button, and then tap **Power off**.

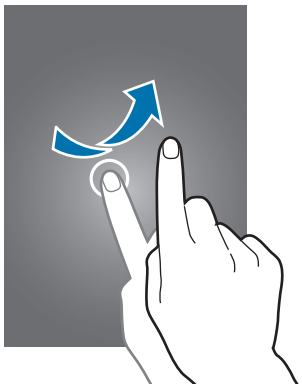


Follow all posted warnings and directions from authorised personnel in areas where the use of wireless devices is restricted, such as aeroplanes and hospitals.

Locking and unlocking the screen

Pressing the Power button turns off the screen and locks it. Also, the screen turns off and automatically locks if the device is not used for a specified period.

To unlock the screen, press the Power button or the Home button and flick your finger in any direction within the unlock screen area.



You can change the unlock code to unlock the screen. Refer to Changing the screen lock method for more information.

Basics

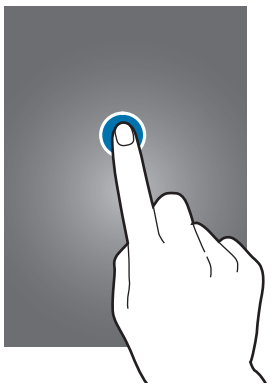
Using the touch screen

- Do not allow the touch screen to come into contact with other electrical devices. Electrostatic discharges can cause the touch screen to malfunction.
- To avoid damaging the touch screen, do not tap it with anything sharp or apply excessive pressure to it with your fingertips.

- The device may not recognise touch inputs close to the edges of the screen, which are outside of the touch input area.
- Leaving the touch screen idle for extended periods may result in afterimages (screen burn-in) or ghosting. Turn off the touch screen when you do not use the device.
- It is recommended to use fingers when you use the touch screen.

Tapping

To open an app, to select a menu item, to press an on-screen button, or to enter a character using the keyboard on the screen, tap it with a finger.



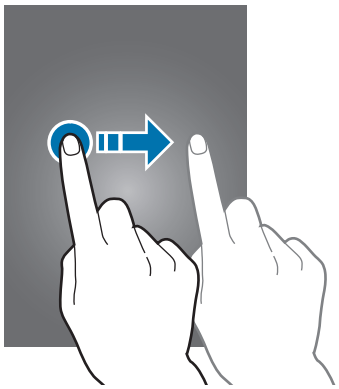
Tapping and holding

Tap and hold an item or the screen for more than 2 seconds to access available options.



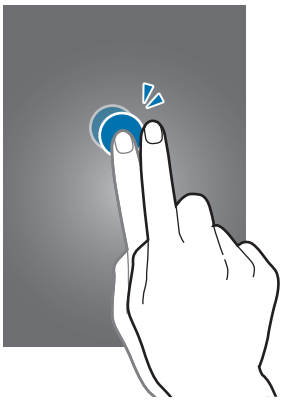
Dragging

To move an item, tap and hold it and drag it to the target position.



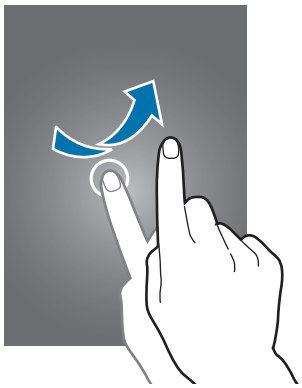
Double-tapping

Double-tap on a webpage or image to zoom in. Double-tap again to return.



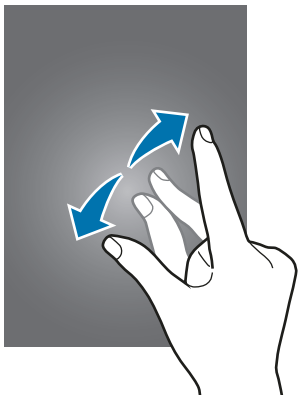
Flicking

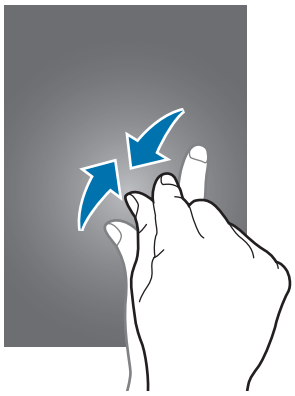
Flick left or right on the Home screen or the Apps screen to see another panel. Flick up or down to scroll through a webpage or a list of items, such as contacts.



Spreading and pinching

Spread two fingers apart on a webpage, map, or image to zoom in a part. Pinch to zoom out.





Home screen layout

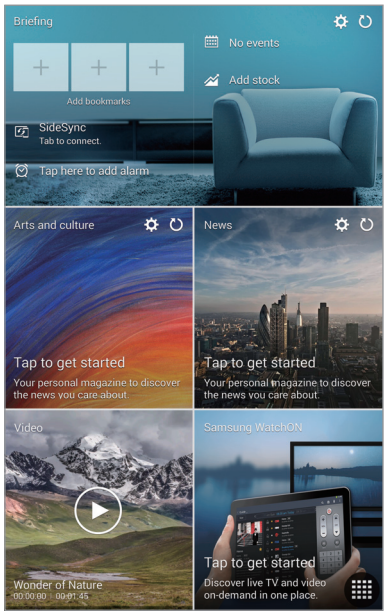
Home screen

The Home screen is the starting point for accessing all of the device's features. The Home screen has two different kinds of panels. The Classic Home screen panel displays widgets, shortcuts to apps, and more, and the Content Home screen panel displays Content widgets. Widgets are small apps that launch specific app functions to provide information and convenient access on your Home screen.

To view other panels, scroll left or right, or tap one of the screen indicators at the bottom of the screen. To customise the Home screen, refer to Managing the Classic Home screen or Managing the Content Home screen.



<Classic Home screen>

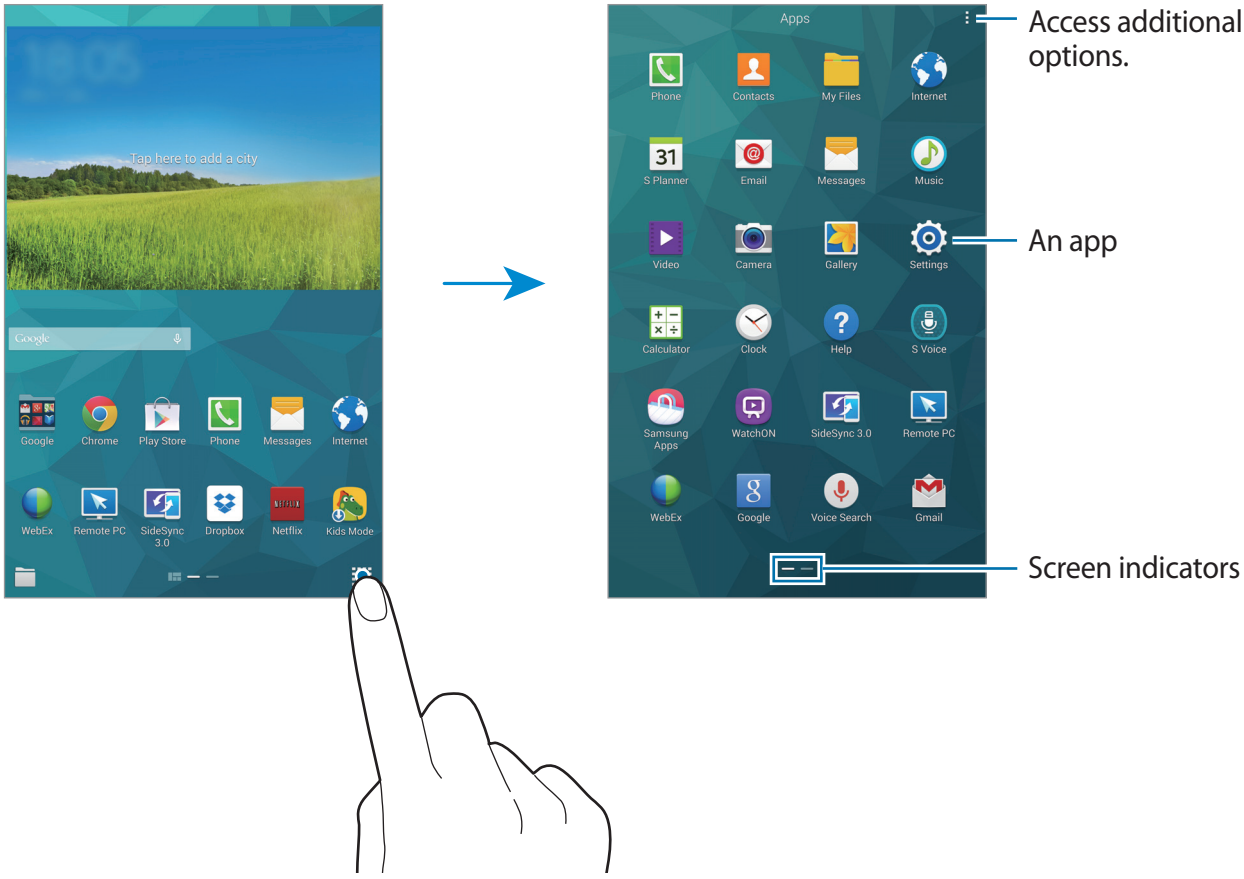


<Content Home screen>

Apps screen

The Apps screen displays icons for all apps, including newly installed apps.

On the Home screen, tap ⋮⋮⋮ to open the Apps screen. To view other panels, scroll left or right, or select a screen indicator at the bottom of the screen. To customise the Apps screen, refer to Managing the Apps screen.



Indicator icons

Indicator icons appear on the status bar at the top of the screen. The icons listed in the table below are most common.

The status bar may not appear at the top of the screen in some apps. To display the status bar, drag down from the top of the screen.

Icon	Meaning
	No signal
	Signal strength
	Roaming (outside of normal service area)
	GPRS network connected
	EDGE network connected
	UMTS network connected
	HSDPA network connected
	HSPA+ network connected
	LTE network connected
	Wi-Fi connected
	Bluetooth feature activated
	GPS activated
	Call in progress
	Missed call
	Smart stay or smart pause feature activated
	Synced with the web
	Connected to computer
	No SIM or USIM card
	New text or multimedia message
	Alarm activated
	Mute mode activated

Icon	Meaning
	Vibration mode activated
	Flight mode activated
	Error occurred or caution required
	Battery power level

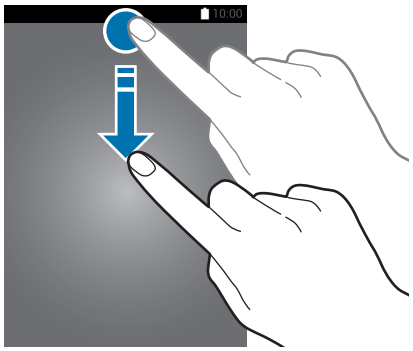
Notifications and quick setting panels

Using the notifications panel

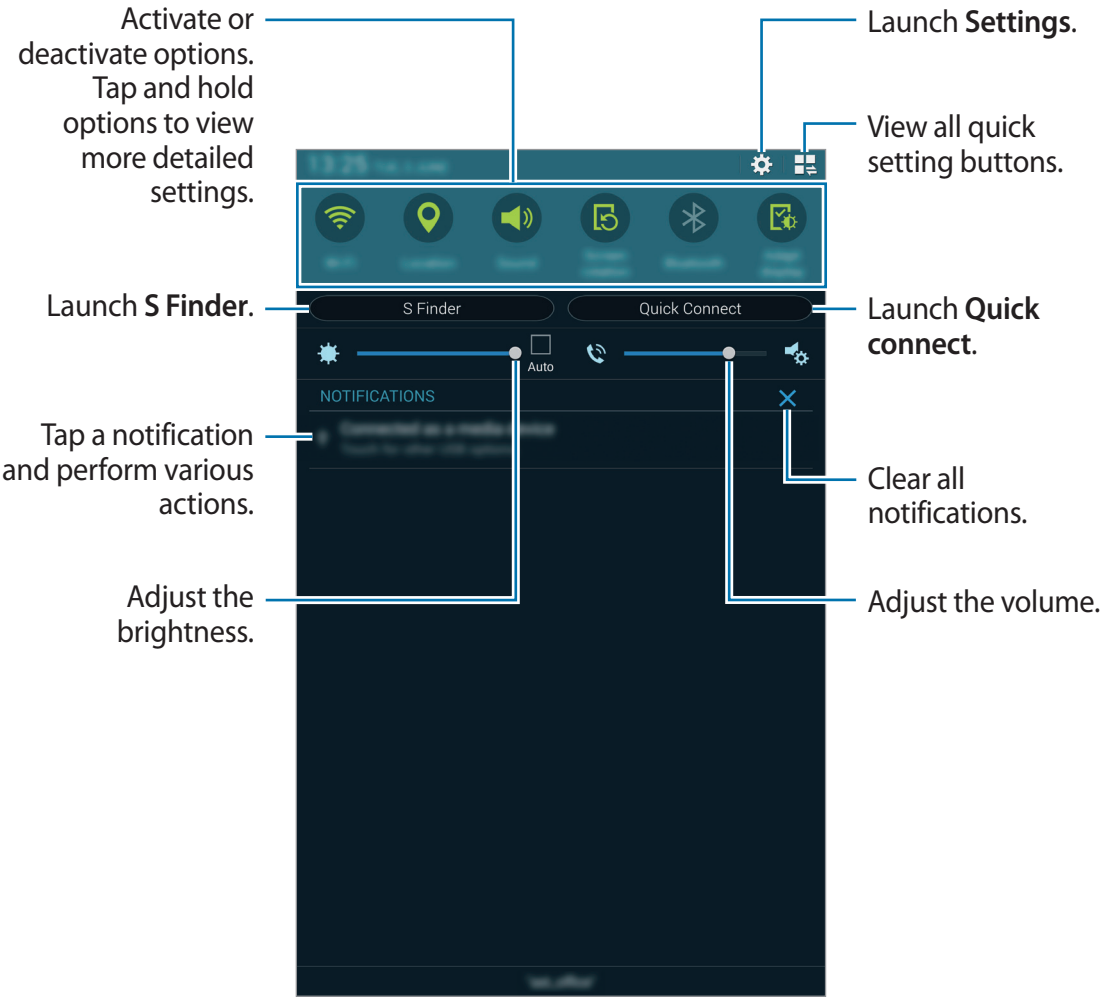
When you receive new notifications, such as messages or missed calls, indicator icons appear on the status bar. To see more information about the icons, open the notifications panel and view the details.

To open the notifications panel, drag the status bar downwards.

To close the notifications panel, drag the bar from the bottom of the screen upwards.



You can use the following functions on the notifications panel.



Rearranging quick setting buttons

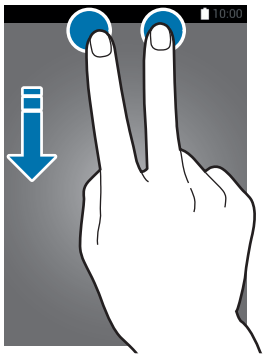
To rearrange quick setting buttons on the notifications panel, tap → , tap and hold an item, and then drag the item to another location.

Using the quick setting panel

You can activate or deactivate some features on the notifications panel. To activate or deactivate more features, open the quick setting panel.

To open the quick setting panel, drag the status bar downwards with two fingers. Alternatively, tap on the notifications panel.

To close the quick setting panel, drag the bar from the bottom of the screen upwards.



Tap the following options to activate or deactivate them. You can view more detailed settings if you tap and hold a button.

- **Wi-Fi**: Refer to Wi-Fi for more information.
- **Location**: Refer to Location for more information.
- **Sound** / **Vibrate** / **Mute**: Select a sound mode.
- **Screen rotation**: Allow or prevent the interface from rotating when you rotate the device.

Some apps do not allow screen rotation.

- **Bluetooth**: Refer to Bluetooth for more information.

- **Adapt display**: When you activate this feature, the display is automatically optimised for various apps.
- **Mobile data**: Refer to Data usage or Mobile networks for more information.
- **Download booster**: Refer to Download booster for more information.
- **U. power saving**: Refer to Ultra power saving mode for more information.
- **Multi window**: Refer to Multi window for more information.
- **Toolbox**: Refer to Toolbox for more information.
- **Mobile hotspot**: Refer to Tethering and Mobile hotspot for more information.
- **Screen Mirroring**: Refer to Screen Mirroring for more information.
- **Sync**: When you activated this feature, the device automatically sync apps, such as calendar or email.
- **Reading mode**: When you activate this feature, the device helps protect your eyes when reading at night.
- **Smart stay**: When you activate this feature, the screen stays on as long as you look at it.
- **Smart pause**: When you activate this feature, playback pauses when you look away from the screen.
- **Power saving**: Refer to Power saving feature for more information.
- **Blocking mode**: Refer to Blocking mode for more information.
- **Flight mode**: Refer to Flight mode for more information.
- **Private mode**: Refer to Private mode for more information.
- **Touch sensitivity**: Refer to Increasing touch screen sensitivity for more information.

Opening apps

On the Home screen or the Apps screen, select an app icon to open it.

To open the list of recently-used apps, tap and select an app icon to open.

Closing an app

Tap → **Task manager**, and then tap **End** next to an app to close it. To close all running apps, tap **End all**. Alternatively, tap → **Close all**.

Installing or uninstalling apps

Samsung Apps

Use this app to purchase and download apps.

Tap **Samsung Apps** on the Apps screen.

This app may not be available depending on the region or service provider.

Installing apps

Browse apps by category or tap to search for a keyword.

Select an app to view information about it. To download free apps, tap **Free**. To purchase and download apps where charges apply, tap the button that shows the app's price.

To change the auto update settings, tap → **Settings** → **Auto update apps**, and then select an option.

Play Store

Use this app to purchase and download apps.

Tap **Play Store** on the Apps screen.

Installing apps

Browse apps by category or tap to search for a keyword.

Select an app to view information about it. To download free apps, tap **INSTALL**. To purchase and download apps where charges apply, tap the price and follow the on-screen instructions.

To change the auto update settings, tap → **SETTINGS** → **Auto-update apps**, and then select an option.

Downloading suggested apps

You can view and download dedicated Galaxy device apps.

On the Classic Home screen, tap the **GALAXY Essentials** widget or the **GALAXY Gifts** widget, and then tap next to an app.

To download all apps in the list, tap **Download all**.

Managing apps

Uninstalling or disabling apps

To disable default apps, open the Apps screen, tap → **Uninstall/Disable apps**. appears on the apps that you can disable. Select an app and tap **Disable**.

To uninstall downloaded apps, open the Apps screen, tap → **Downloaded apps** → **Uninstall**. Alternatively, on the Apps screen, tap **Settings** → **Applications** → **Application manager**, select an app, and then tap **Uninstall**.

Enabling apps

On the Apps screen, tap ⋮ → **Show disabled apps**, select apps, and then tap **Done**.

Alternatively, on the Apps screen, tap **Settings** → **Applications** → **Application manager**, scroll to **DISABLED**, select an app, and then tap **Enable**.

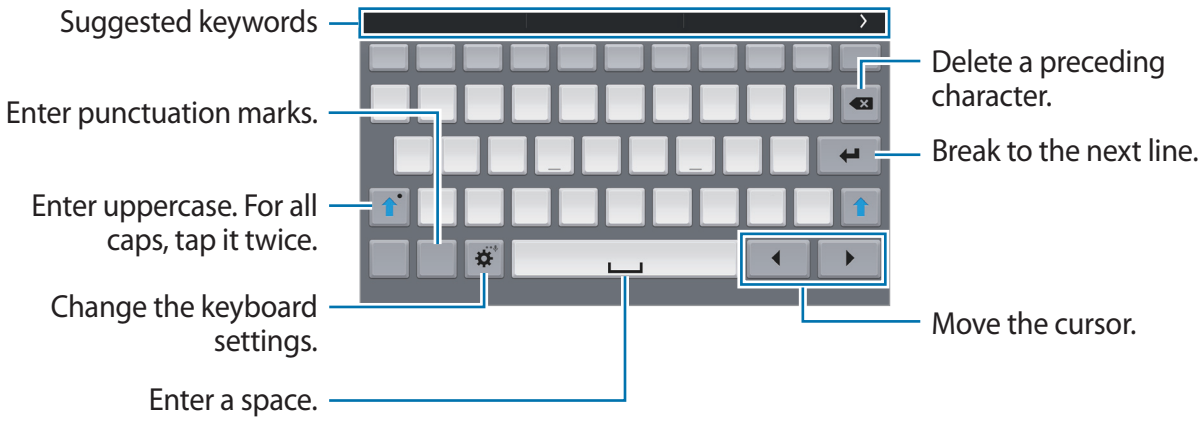
- Hiding apps: Hide apps in the Apps screen only. You can continue to use hidden apps.
- Disabling apps: Disable selected default apps that cannot be uninstalled from the device. You cannot use disabled apps.
- Uninstalling apps: Uninstall downloaded apps.

Entering text

Keyboard layout

A keyboard appears automatically when you enter text to send messages, create memos, and more.

Text entry is not supported in some languages. To enter text, you must change the input language to one of the supported languages.



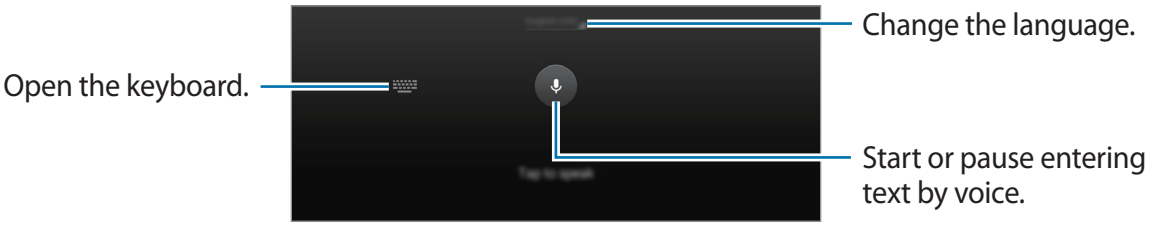
Changing the input language

Tap ⚙ → **Select input languages**, and then select the languages to use. If you select two or more languages, you can switch between the input languages by sliding the space key left or right.

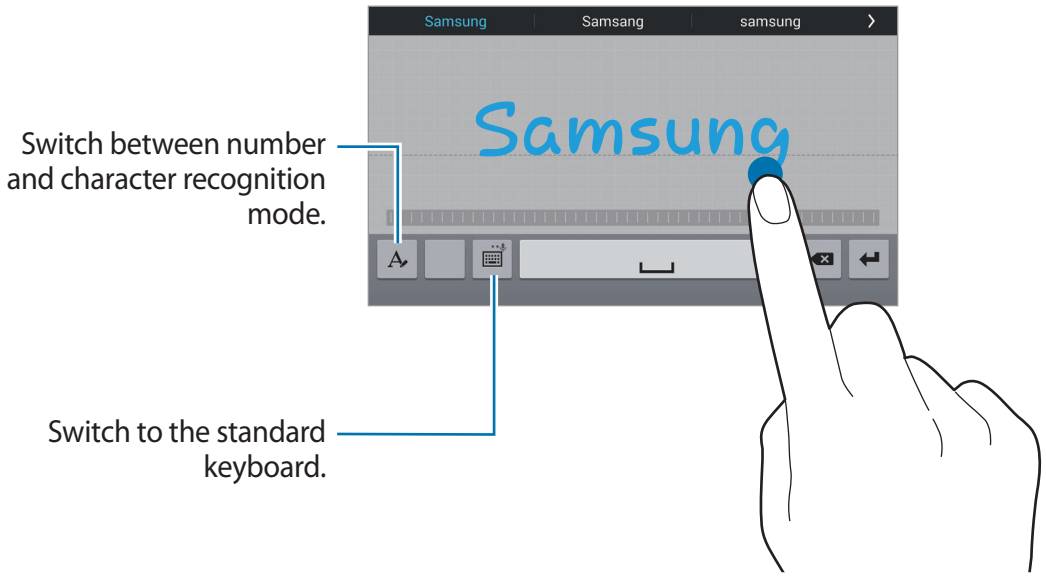
Using additional keyboard functions

Tap and hold ⚙ to use various functions. Other icons may appear instead of ⚙ depending on the last function that was used.

- 🎤 : Enter text by voice.

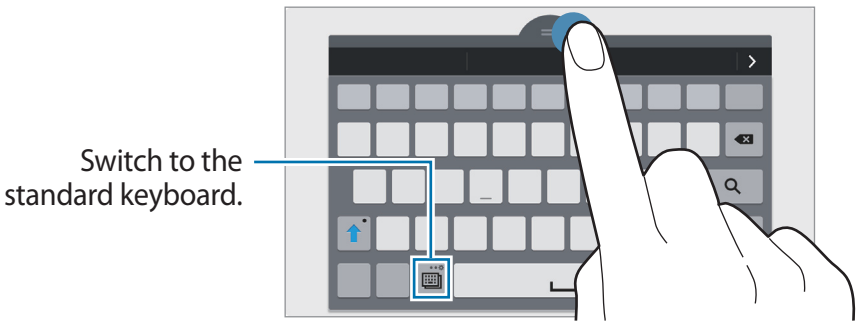


- T : Switch to handwriting mode.



This feature may not be available depending on the region or service provider.

- : Add an item from the clipboard.
- : Change the keyboard settings.
- : Enter emoticons.
- : Change the keyboard type. You can move the keyboard to another location by dragging .



Copying and pasting

1 Tap and hold over text.

2 Drag or to select the desired text, or tap **Select all** to select all text.

3 Tap **Copy** or **Cut**. The selected text is copied to the clipboard.

4 Place the cursor where the text is to be inserted and tap → **Paste**. To paste text that you have previously copied, tap → **Clipboard** and select the text.

Screen capture

Capture a screenshot while using the device.

Press and hold the Home button and the Power button simultaneously. The image is saved in the **Gallery** → → **Album** → **Screenshots** folder. After capturing a screenshot, you can edit the image and share it with others.

You can also capture screenshots using other methods. Refer to Palm swipe to capture for more information.

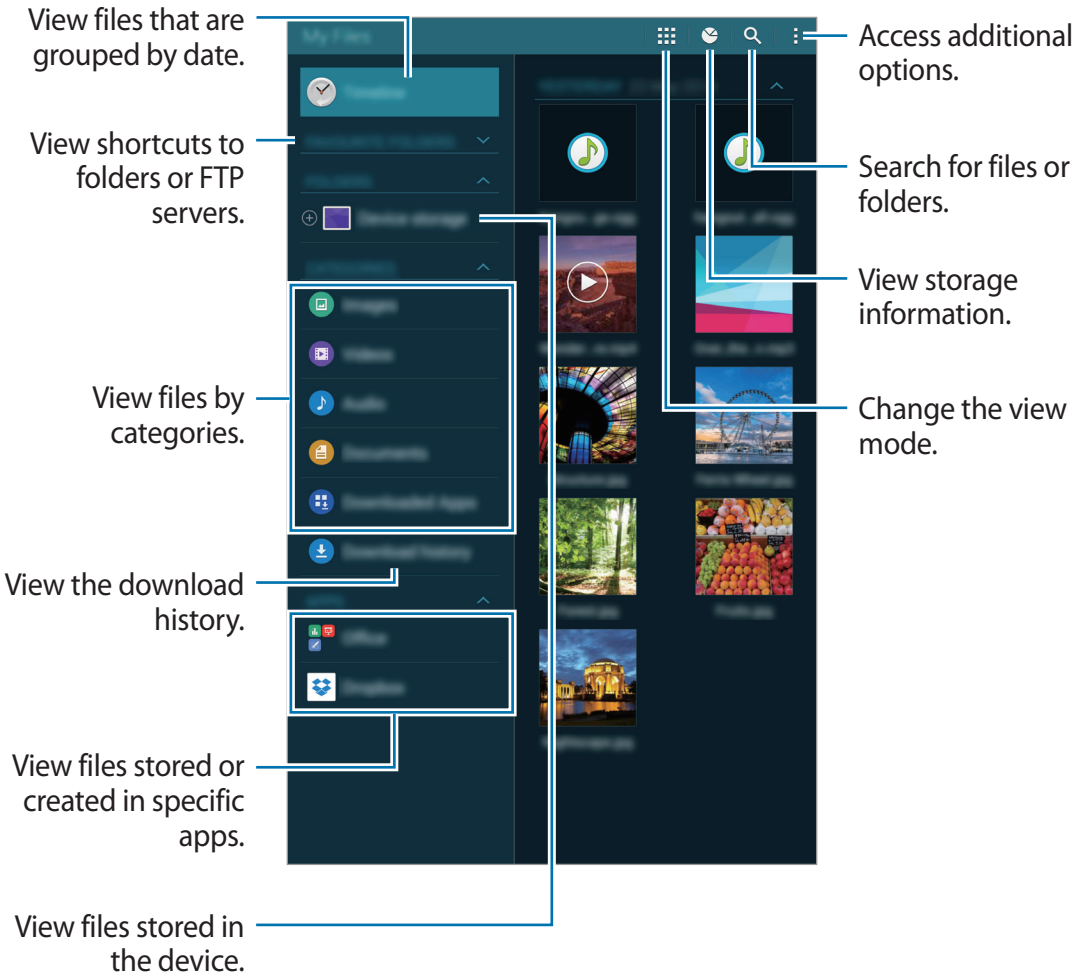
It is not possible to capture a screenshot while using some apps.

My Files

About My Files

Use this app to access various files stored in the device or in other locations, such as cloud storage services.

Tap **My Files** on the Apps screen. Alternatively, tap at the bottom left of the Classic Home screen.



Viewing files

Tap **My Files** on the Apps screen.

Select a folder, tap ⋮, and then use one of the following options:

- **Select**: Select files or folders to apply options.
- **Sort by**: Sort files or folders.
- **Add to favourite folders**: Add a shortcut to a folder in **FAVOURITE FOLDERS**.
- **Delete**: Delete files or folders.
- **Add shortcut to home**: Add a shortcut to a file or a folder on the Classic Home screen.
- **Add FTP**: Add an FTP server shortcut in **FOLDERS**.
- **Scan for Nearby Devices**: Search for devices that have media sharing activated.
- **Display options**: Change the file display options.

Tap and hold a file or folder, and then use the following options:

- : Share files with others.
- : Delete files or folders.
- : Move files or folders to another folder.
- : Copy files or folders to another folder.
- ⋮ → **Rename**: Rename a file or folder.
- ⋮ → **Add to favourite folders**: Add a shortcut to a folder in **FAVOURITE FOLDERS**.
- ⋮ → **Add shortcut to home**: Add a shortcut to a file or a folder on the Classic Home screen.
- ⋮ → **Zip**: Compress files or folders to create a zip file.
- ⋮ → **Details**: View file or folder details.

Power saving feature

Power saving mode

Save the battery power by limiting the device's functions.

On the Apps screen, tap **Settings** → **General** → **Power saving** → **Power saving mode**, and then tap the switch at the top right of the screen to activate it. Alternatively, open the quick setting panel and tap **Power saving** to activate it.

Select from the following options:

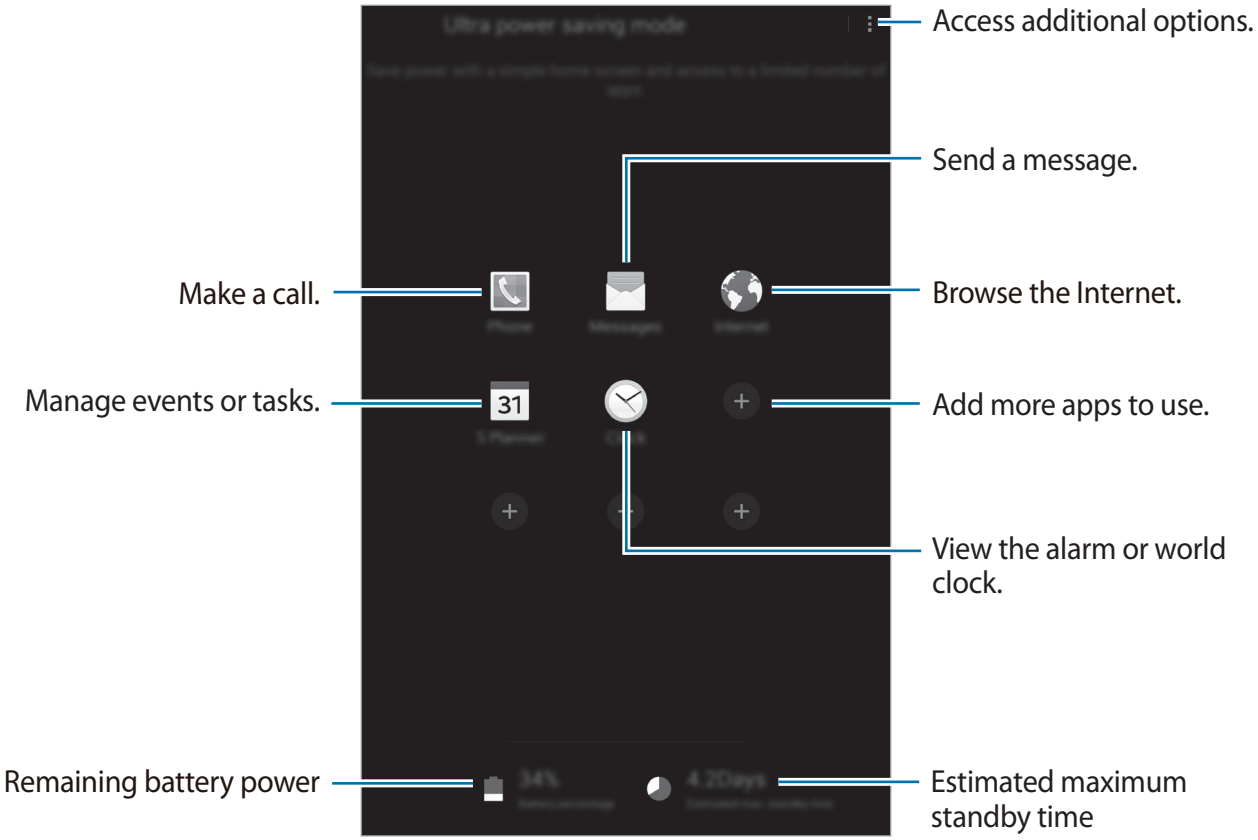
- **Restrict background data**: Prevent apps that are running in the background from using a mobile data connection.
- **Restrict performance**: Limit various options, such as turning off the backlight for the Recent apps button and the Back button.
- **Greyscale mode**: Display colours on the screen as grey tones.

Ultra power saving mode

Use this mode to extend the device's battery power. In ultra power saving mode, the device performs the following:

- Displays colours on the screen as grey tones.
- Restricts the available apps to essential and selected apps only.
- Deactivates the mobile data connection when the screen turns off.
- Deactivates the Wi-Fi and Bluetooth features.

On the Apps screen, tap **Settings** → **General** → **Power saving**, and tap the **Ultra power saving mode** switch to activate it. Alternatively, open the quick setting panel and tap **U. power saving** to activate it.



To add an app to the Home screen, tap ⊕ and select an app.

To remove an app from the Home screen, tap ⋮ → **Remove**, select an app with ⊖, and then tap **Done**.

To change the settings for ultra power saving mode, such as network connectivity or sound, tap ⋮ → **Settings**.

To deactivate ultra power saving mode, tap ⋮ → **Disable ultra power saving mode**.

The estimated maximum standby time shows the time remaining before the battery power runs out if the device is not used. Standby time may vary depending on your device settings and operating conditions.

Viewing help information

To view help information to learn how to use the device and apps, open the Apps screen, tap **Help**.

To view help information for an app while you are using the app, tap ⋮ → **Help**.

Some apps may not include help information.

Network connectivity

Mobile data

Connect the device to a mobile network to use the Internet or share media files with other devices. Refer to Data usage for additional options.

On the Apps screen, tap **Settings** → **Connections** → **Data usage**, and then tick **Mobile data**. Alternatively, open the quick setting panel and tap **Mobile data** to activate it.

Wi-Fi

Connect the device to a Wi-Fi network to use the Internet or share media files with other devices. Refer to Wi-Fi for additional options.

- Your device uses a non-harmonised frequency and is intended for use in all European countries. The WLAN can be operated in the EU without restriction indoors, but cannot be operated outdoors.
- Turn off Wi-Fi to save the battery when not in use.

1 On the Apps screen, tap **Settings** → **Connections** → **Wi-Fi**, and then tap the **Wi-Fi** switch to activate it.

2 Select a network from the Wi-Fi networks list. Networks that require a password appear with a lock icon.

3 Tap **Connect**.

Once the device connects to a Wi-Fi network, the device will reconnect to that network each time it is available without requiring a password.

To prevent the device connecting to the network automatically, select it from the list of networks and tap **Forget**.

Adding Wi-Fi networks

If the desired network does not appear in the Wi-Fi networks list, tap **Add Wi-Fi network** at the bottom of the list. Enter the network name in **Network SSID**, select the security type and enter the password if it is not an open network, and then tap **Connect**.

Activating Wi-Fi Passpoint

Wi-Fi Passpoint enables the device to search for and connect to a certified Wi-Fi network. You can use the Passpoint feature to connect to public Wi-Fi networks that support automated authentication. When you move to a new location, it will search for and connect to another certified Wi-Fi network.



This feature may not be available depending on the region.

Tap ⋮ → **Advanced**, and then tick **Passpoint**.

Using Smart network switch

Use this feature to maintain a stable network connection when you browse webpages, download content, and more.

On the Apps screen, tap **Settings** → **Connections** → **Wi-Fi**, and then tick **Smart network switch**. The device automatically switches from a Wi-Fi network to a mobile network when the current Wi-Fi network is weak or unstable. When the Wi-Fi network signal becomes strong, the device switches from the mobile network back to the Wi-Fi network.

Download booster

Use this feature to download large files faster via Wi-Fi and mobile networks simultaneously. A stronger Wi-Fi signal will provide a faster download speed.

On the Apps screen, tap **Settings** → **Connections** → **Download booster**, and then tap the **Download booster** switch to activate it. Alternatively, open the quick setting panel and tap **Download booster** to activate it.

- You may incur additional charges when downloading files via a mobile network.
- When you download large files, the device may heat up. If the device exceeds a set temperature, the feature will turn off.
- If network signals are unstable, the speed and performance of this feature may be affected.
- If the Wi-Fi and mobile network connections have significantly different data transfer speeds, the device may use only the fastest connection.
- This feature supports Hypertext Transmission Protocol (HTTP) 1.1 only. The feature cannot be used with other protocols, such as HTTPS or FTP.

Tethering and Mobile hotspot

About tethering and mobile hotspots

Use this feature to share the device's mobile data connection with computers and other devices if an Internet connection is unavailable. Connections can be made via Wi-Fi, USB, or Bluetooth.

You may incur additional charges when using this feature.

Using the mobile hotspot

Use your device as a mobile hotspot to share your device's mobile data connection with other devices.

1 On the Apps screen, tap **Settings** → **Connections** → **Tethering and Mobile hotspot** → **Mobile hotspot**.

2 Tap the **Mobile hotspot** switch to activate it.

- appears on the status bar. Other devices can find your device in the Wi-Fi networks list.
- To set a password for the mobile hotspot, tap and select the level of security. Then, enter a password and tap **Save**.

3 On the other device's screen, search for and select your device from the Wi-Fi networks list.

4 On the connected device, use the device's mobile data connection to access the Internet.

Using USB tethering

Share the device's mobile data connection with other devices via a USB cable.

1 On the Apps screen, tap **Settings** → **Connections** → **Tethering and Mobile hotspot**.

2 Connect your device to the computer via the USB cable.

3 Tick **USB tethering**. appears on the status bar when the two devices are connected.

4 On the computer, use your device's mobile data connection.

Using Bluetooth tethering

Share the device's mobile data connection with other devices via Bluetooth. Ensure that the computer that you connect to supports the Bluetooth feature.

1 Pair your device with the other device via Bluetooth. Refer to Pairing with other Bluetooth devices for more information.

2 On the Apps screen of your device, tap **Settings** → **Connections** → **Tethering and Mobile hotspot**.

3 Tick **Bluetooth tethering**.

4 On the connected device, open the Bluetooth settings screen, tap ⚙ → **Internet access**.

appears on the status bar when the two devices are connected.

5 On the connected device, use the device's mobile data connection to access the Internet.

The connection methods may vary depending on the connected devices.

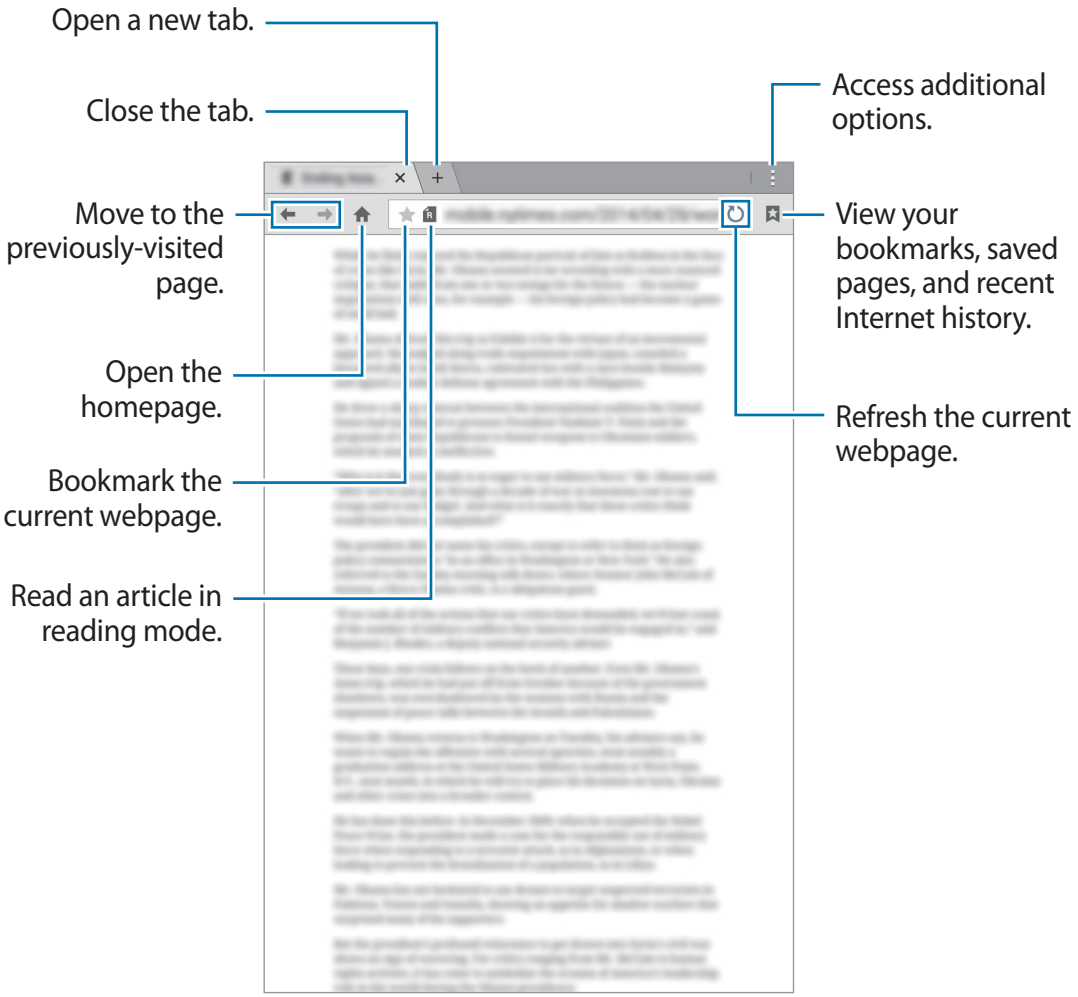
Internet

Browsing webpages

1 Tap **Internet** on the Apps screen.

2 Tap the address field. To change the search engine, tap the search engine icon next to the web address field.

3 Enter the web address or a keyword, and then tap **Go**. To search the web by voice, tap .



Setting the homepage

Tap **Internet** on the Apps screen.

Tap ⋮ → **Settings** → **Set homepage**, and then select one of the following:

- **Default page**: Set the device's default webpage as your homepage.
- **Current page**: Set the current webpage as your homepage.
- **Most visited sites**: Set the list of most-visited webpages as your homepage.
- **Other**: Set a preset webpage as your homepage.

While viewing a webpage, tap to open the homepage.

Managing the webpage history

Tap **Internet** on the Apps screen.

Tap → **History** to open a webpage from the list of recently-visited webpages.

To clear the history, tap **Edit** → → **OK**.

To delete webpages, tap **Edit**, tap and hold a webpage, select webpages to delete, and then tap .

Motions & usability features

Motions and gestures

Excessive shaking or impact on the device may result in unintended inputs. Control motions properly.

Direct call

On the Apps screen, tap **Settings** → **Device** → **Motions**, and then tap the **Direct call** switch to activate it.

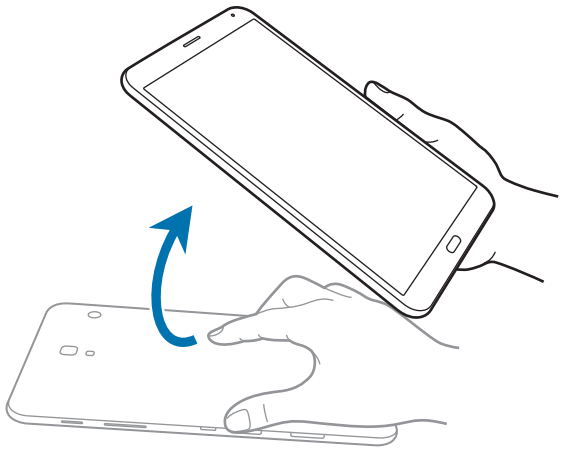
While viewing call, message, or contact details, pick up and hold the device to your ear to make a call.



Smart alert

On the Apps screen, tap **Settings** → **Device** → **Motions**, and then tap the **Smart alert** switch to activate it.

If you have missed calls or new messages, the device will vibrate when you pick it up. This feature may not work if the screen is turned on or the device is not on a flat surface.



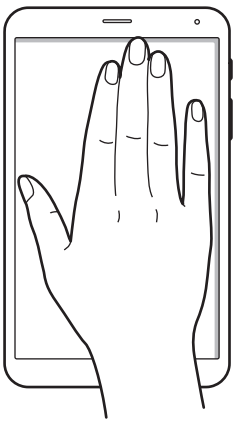
Mute/Pause

On the Apps screen, tap **Settings** → **Device** → **Motions**, and then tap the **Mute/Pause** switch to activate it.

Covering screen with hand

Cover the screen with your palm to mute incoming calls or alarms, or to pause media playback.

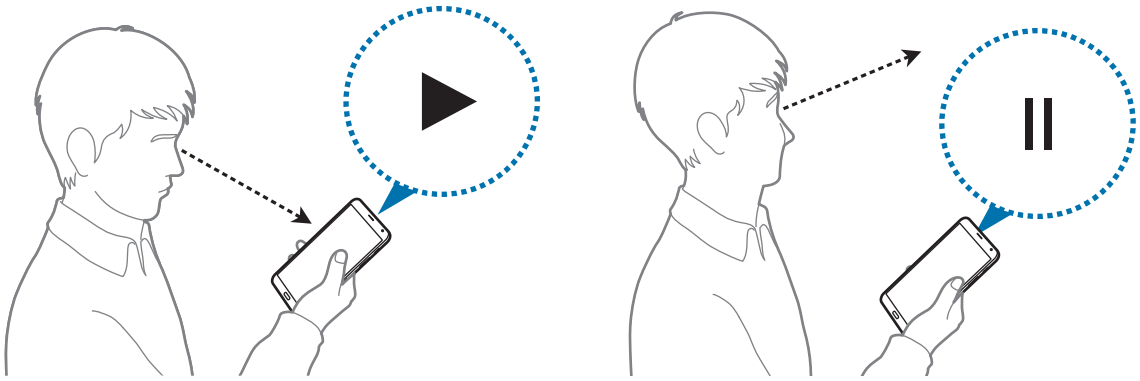
Tap **Mute/Pause** → **Covering screen with hand**.



Smart pause

Playback pauses automatically when you look away from the screen. It resumes when you look at the screen again.

Tap **Mute/Pause** → **Smart pause**.

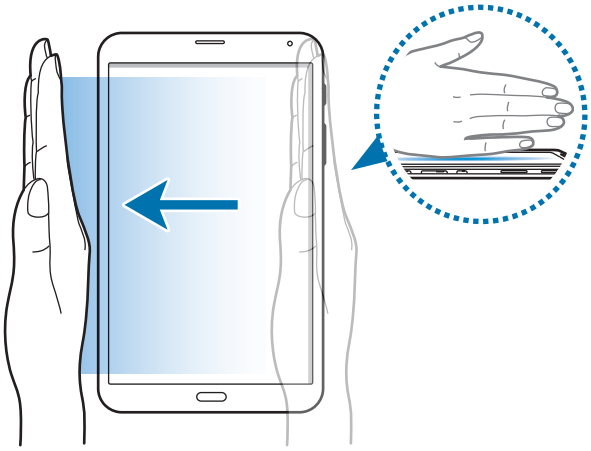


Palm swipe to capture

On the Apps screen, tap **Settings** → **Device** → **Motions**, and then tap the **Palm swipe to capture** switch to activate it.

Place the side of your hand on the screen and sweep it across the screen from the right to the left or vice versa to capture a screenshot. The image is saved in the **Gallery** → ☰ → **Album** → **Screenshots** folder. After capturing a screenshot, you can edit the image and share it with others.

It is not possible to capture a screenshot while using some apps.



Multi window

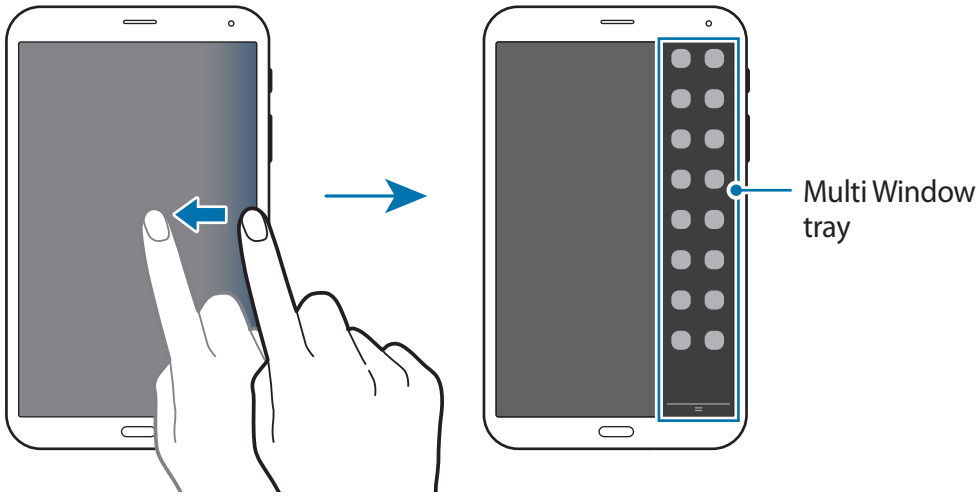
About Multi window

Use this feature to run two apps on the screen at the same time. You can use this feature to view emails or use the Internet while you play a video simultaneously.

Launching Multi window

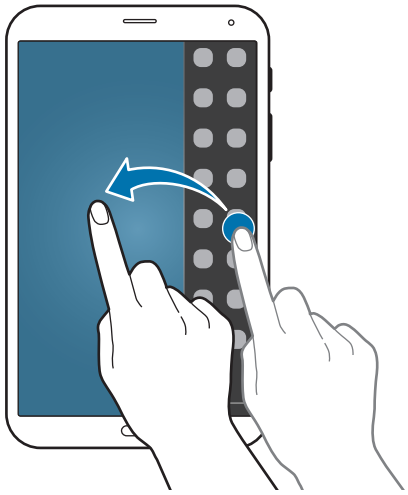
1 On the Apps screen, tap **Settings** → **Device** → **Multi window**, and then tap the **Multi window** switch to activate it. Alternatively, open the quick setting panel and tap **Multi window** to activate it.

2 Drag your finger from the right edge of the screen towards the middle of the screen to open the Multi window tray. Alternatively, tap and hold ⮌.



3 Tap and hold an app icon to launch from the Multi window tray, and then drag it to the screen.

Release the app icon when the screen turns blue.



4 Tap and hold another app icon on the Multi window tray, and then drag it to a new location.

App icons marked with can be launched in separate windows on the screen at the same time.

Creating a Multi window combination

Use this feature to save the combination of the currently-running Multi window apps.

1 Launch two apps in a split-screen Multi window.

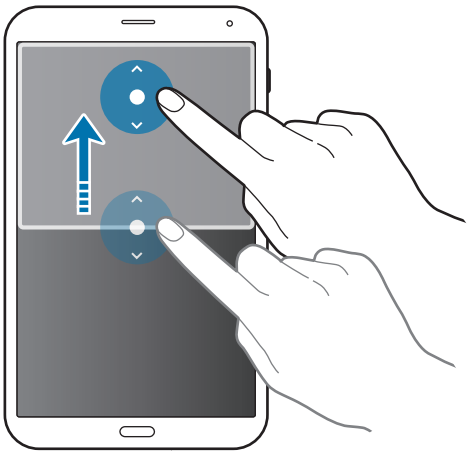
2 Open the Multi window tray and tap .::. → **Create**.

The Multi window combination is added at the top of the Multi window tray.

To delete Multi window combinations, open the Multi window tray, tap .::. → **Edit**, select a Multi window combination, and then tap **Done**.

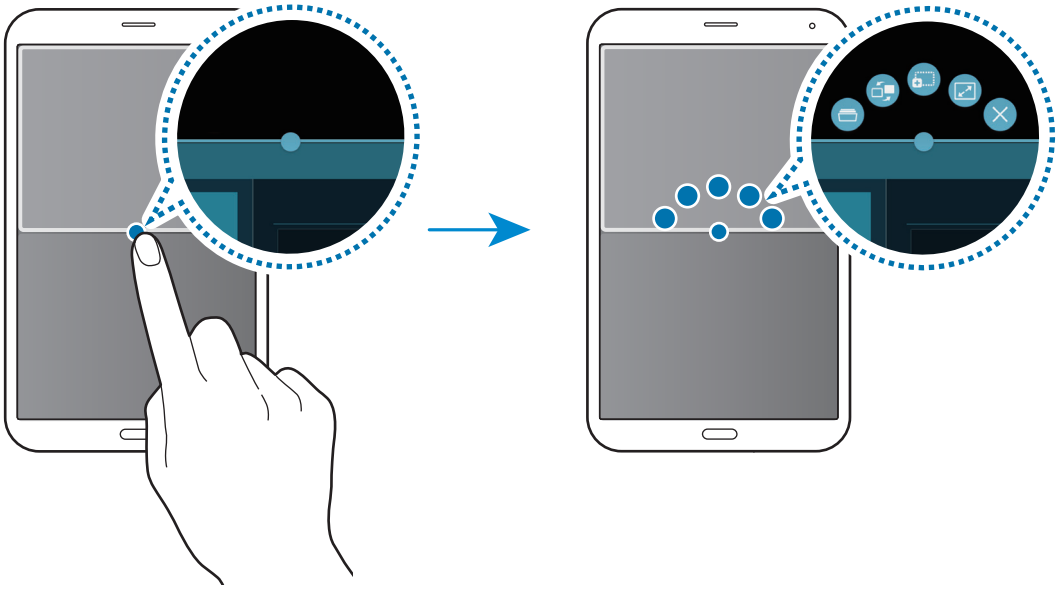
Adjusting the window size

Drag the circle between the app windows up or down to adjust the size of the windows.

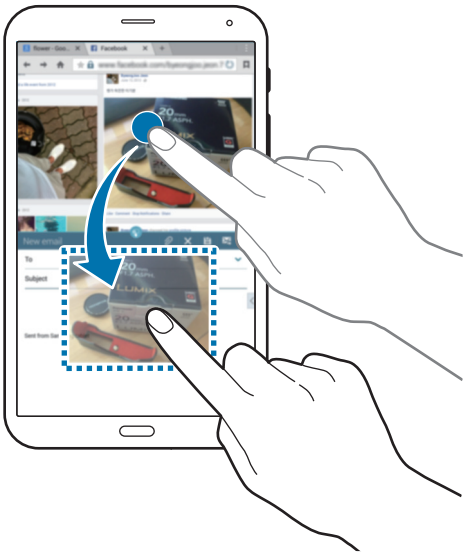


Using Multi window options

When you use Multi window apps, select the app window and a blue frame will appear around it. Tap the circle between the app windows to access the following options:



- : Open a list of recently-used apps in the selected window.
- : Switch locations between Multi window apps.
- : Drag and drop text or copied images from one window to another. Tap and hold an item in the selected window and drag it to a location in another window.



Some apps may not support this feature.

- : Maximise the window.
- : Close the app.

Rearranging apps on the Multi window tray

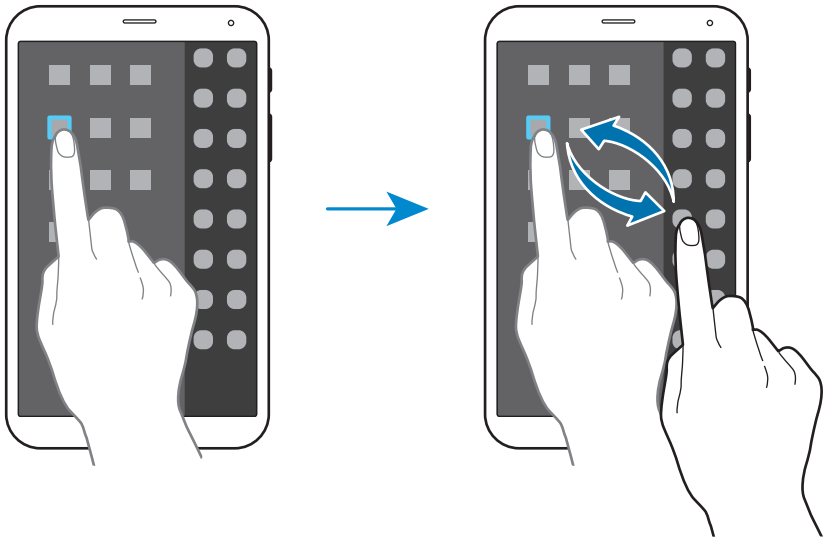
You can rearrange the apps on the Multi window tray.

1 On the Apps screen, tap **Settings** → **Device** → **Multi window**, and then tap the **Multi window** switch to activate it. Alternatively, open the quick setting panel and tap **Multi window** to activate it.

2 Open the Multi window tray and tap ⋰⋱ → **Edit**.

The device displays the available apps that you can use on the Multi window tray.

3 Tap and hold an app and drag it to the Multi window tray.



4 Tap **Done**.

Toolbox

You can easily launch various apps from the toolbox while using other apps.

On the Apps screen, tap **Settings** → **Device** → **Toolbox**, and then tap the **Toolbox** switch to activate it. Alternatively, open the quick setting panel and tap **Toolbox** to activate it. appears on the screen.

To launch an app, tap and select an app.

To move the toolbox, tap and drag it to another location.

To change the apps in the toolbox, tap and hold , and then drag it to **Edit**.

To hide the toolbox, tap and hold , and then drag it to **Remove**.

Increasing touch screen sensitivity

Use this feature to operate the screen while wearing gloves.

On the Apps screen, tap **Settings** → **Device** → **Display**, and then tick **Increase touch sensitivity**. Alternatively, open the quick setting panel and tap **Touch sensitivity** to activate it.

- Use leather gloves for better recognition while touching the screen. Other types of material may not be recognised.
- For best results, tap the screen firmly while wearing gloves.

Personalising

Managing the Home and Apps screens

Managing the Classic Home screen

Adding items

Tap and hold an app or a folder from the Apps screen, and then drag it to the Classic Home screen.

To add widgets, open the Classic Home screen, tap and hold an empty area, tap **Widgets**, tap and hold a widget, and then drag it to the Classic Home screen.

Moving and removing an item

Tap and hold an item on the Classic Home screen, and then drag it to a new location.

To move the item to another panel, drag it to the side of the screen.

To remove an item, tap and hold the item. Then, drag it to **Remove** that appears at the top of the screen.

Creating a folder

1 On the Classic Home screen, tap and hold an app, and then drag it to **Create folder** that appears at the top of the screen.

2 Enter a folder name.

3 Tap ⊕, select the apps to add to the folder, and then tap **Done**.

Managing folders

To rename a folder, select a folder, and then tap the existing folder name. Enter a new name for the folder and tap **Done**.

To change the colour of a folder, select a folder, tap ⋮, and then select a colour.

To move more apps to a folder, tap and hold an app, and then drag it to the folder.

To move an app from a folder, select a folder, tap and hold the app, and then drag it to a new location.

Managing panels

On the Classic Home screen, tap and hold an empty area to add, move, or remove a panel.

To add a panel, scroll left to the last panel, and then tap +.

To move a panel, tap and hold a panel preview, and then drag it to a new location.

To remove a panel, tap and hold a panel preview, and then drag it to **Remove** at the top of the screen.

To set a panel as the main Classic Home screen, tap ⌂.

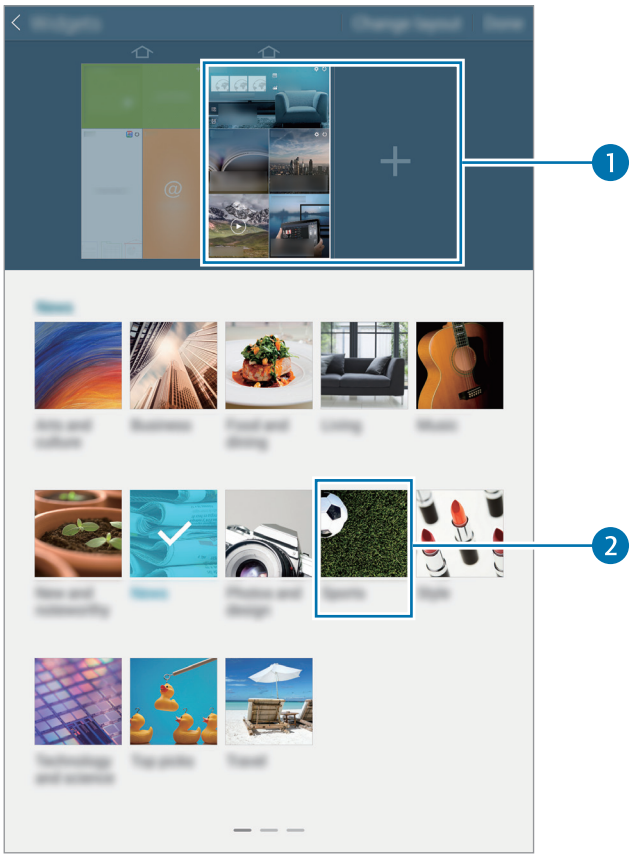
Managing the Content Home screen

The Content Home screen displays Content widgets. You can access an app directly by selecting a Content widget on the Content Home screen.

Adding a widget or panel

1 Pinch your fingers together on the Content Home screen.

2 On the Widgets screen, select a panel to edit or tap + to create a new panel (1). Select widgets to add to the panel from the bottom pane of the screen (2).



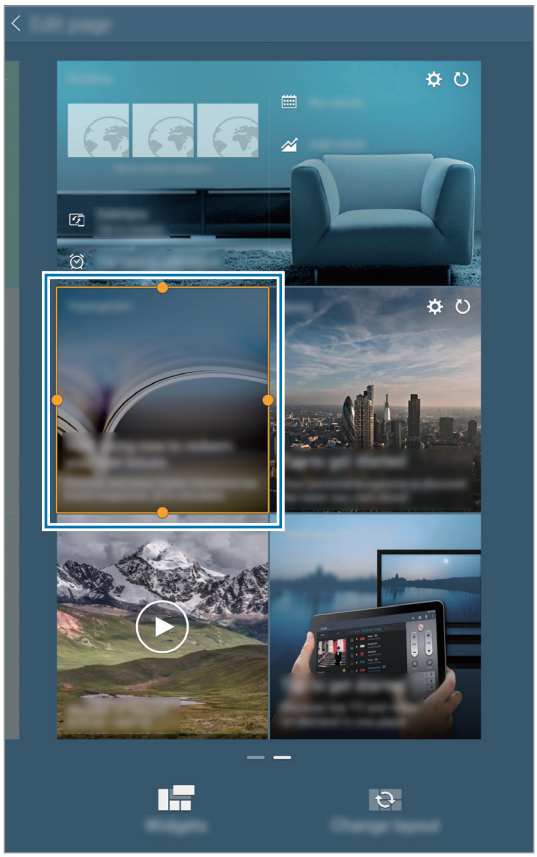
Scroll left or right on the bottom pane of the screen to view more widgets.

3 Tap **Done**.

Adjusting widget size

1 On the Content Home screen, tap and hold a widget you want to resize.

2 Adjust the size of the widget by dragging the frame around it.



3 Tap ⮌ to save the change.

Moving a widget

1 On the Content Home screen, tap and hold a widget.

2 Tap and hold a widget and then drag it to a new location.

To arrange the widgets on the current panel in random locations, tap **Change layout**.

Removing a panel

1 Pinch your fingers together on the Content Home screen.

2 On the Widgets screen, tap and hold the panel to remove.

3 Drag the panel to **Remove** that appears at the top of the screen.

At least one panel must remain on the Content Home screen.

Managing the Apps screen

Changing view mode

On the Apps screen, tap ⋮ → **View as** and select a sorting method.

Hiding apps

Hide apps that you do not want to see on the Apps screen.

On the Apps screen, tap ⋮ → **Hide apps**, select apps, and then tap **Done**.

To display hidden apps, tap ⋮ → **Show hidden apps**, select apps, and then tap **Done**.

Moving items

On the Apps screen, tap ⋮ → **Edit**. Tap and hold an item and drag it to a new location.

To move the item to another panel, drag it to the side of the screen.

To move an item to a new panel, drag it to **Create page** that appears at the top of the screen.

You can move folders only in the folder panel.

Creating folders

1 On the Apps screen, tap ⋮ → **Create folder**. Alternatively, tap ⋮ → **Edit**, tap and hold an app, and then drag it to **Create folder** that appears at the top of the screen.

2 Enter a folder name.

3 Tap ⊕, select the apps to move to the folder, and then tap **Done**.

The new folder is added to the folder panel of the Apps screen.

Managing folders

To rename a folder, select a folder and tap the existing folder name. Enter a new name for the folder and tap **Done**.

To change the colour of a folder, select a folder, tap ⋮, and then select a colour.

To move more apps to a folder, tap ⋮ → **Edit**, tap and hold an app, and then drag it to the folder.

To move an app from a folder, tap ⋮ → **Edit**, select a folder, tap and hold the app, and then drag it to an app panel. If you move the app from the folder to the folder panel, a new folder is created.

Setting wallpaper and ringtones

Setting wallpaper

Set an image or photo stored in the device as wallpaper for the Classic Home screen or the locked screen.

1 On the Classic Home screen, tap and hold an empty area, and then tap **Wallpapers**. Alternatively, open the Apps screen, tap **Settings** → **Device** → **Wallpaper**.

2 Select a screen to change or apply wallpaper to.

3 Scroll left or right and select from images displayed at the bottom of the screen.

To select photos taken by the device's camera or other images, tap **More images**.

4 Tap **Set wallpaper** or **Done**.

Changing ringtones

Change ringtones for incoming calls and notifications.

On the Apps screen, tap **Settings** → **Device** → **Sound**.

To set a ringtone for incoming calls, tap **Ringtones**, select a ringtone, and then tap **OK**. To use a song stored in the device or in your account as a ringtone, tap **Add**.

To set a ringtone for notifications, tap **Notifications**, select a ringtone, and then tap **OK**.

Changing the screen lock method

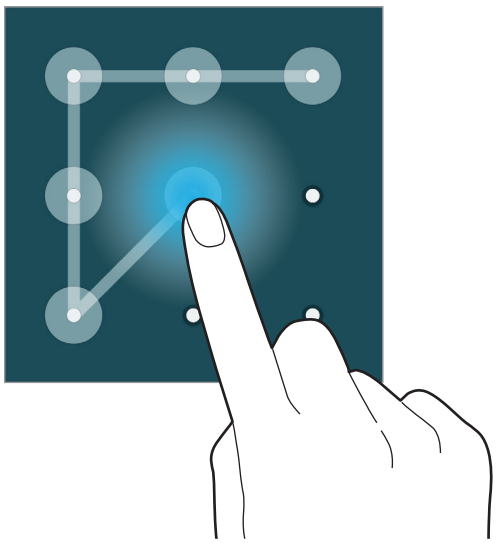
You can change the way that you lock the screen to prevent others from accessing your personal information.

On the Apps screen, tap **Settings** → **Device** → **Lock screen** → **Screen lock**, and then select a screen lock method. The device requires an unlock code whenever unlocking it.

If the unlock code is forgotten, take the device to a Samsung Service Centre to reset it.

Pattern

Draw a pattern by connecting four dots or more, and then draw the pattern again to verify it. Set a backup PIN to unlock the screen when you forget the pattern.



Fingerprint

Register your fingerprints to unlock the screen. Refer to Finger Scanner for more information.

PIN

A PIN consists of numbers only. Enter at least four numbers, and then enter the password again to verify it.

Password

A password consists of characters and numbers. Enter at least four characters including numbers and symbols, and then enter the password again to verify it.

Finger Scanner

For better fingerprint recognition

When you scan your fingerprints on the device, be aware of the following conditions that may affect the feature's performance:

- The Home button contains a fingerprint recognition sensor. Ensure that the Home button is not scratched or damaged by metal objects, such as coins, keys, and necklaces.
- The screen protector supplied with the device may cause the fingerprint recognition sensor to malfunction. Remove the screen protector to improve fingerprint sensitivity.
- Ensure that the fingerprint recognition area and your fingers are clean and dry.
- The device may not recognise fingerprints that are affected by wrinkles or scars.
- The device may not recognise fingerprints from small or thin fingers.
- To improve recognition performance, register fingerprints of the hand used most often to perform tasks on the device.
- Do not drag your finger too quickly or slowly. Drag your finger at a moderate speed to allow the device to recognise it.
- In dry environments, static electricity can build up in the device. Avoid using this feature in dry environments or before using the feature, discharge static electricity by touching a metal object.

Registering fingerprints

1 On the Apps screen, tap **Settings** → **Device** → **Finger Scanner** → **Fingerprint manager**.

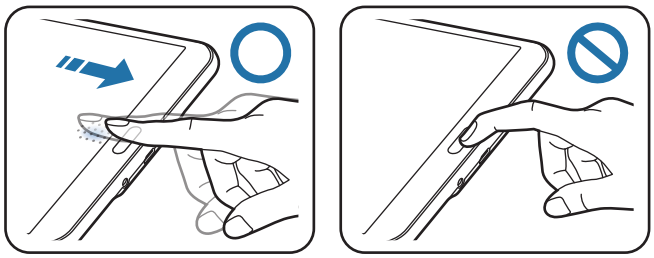
2 If you are registering more fingerprints, a fingerprint recognition pop-up window appears. Scan a registered fingerprint on the device and tap +.

3 Place your finger on the fingerprint area at the bottom centre of the screen.

4 Tap and hold the screen in the fingerprint area, and then drag your finger downwards over the Home button.

Repeat this action using the same finger until the fingerprint is registered.

If you bend your finger or use a fingertip, the device may not recognise your fingerprints.



5 If a pop-up window appears requesting a password, enter the alternative password, tap **Continue**, enter the alternative password again to verify it, and then tap **OK**. You can use the alternative password instead of scanning your fingerprints.

6 If a fingerprint lock pop-up window appears, tap **OK**. You can use your fingerprints to unlock the screen.

Managing registered fingerprints

You can delete or rename your registered fingerprints.

On the Apps screen, tap **Settings** → **Device** → **Finger Scanner** → **Fingerprint manager**. Then, scan a registered fingerprint or tap **Alternative password**, enter the current alternative password, and then tap **Done**.

To delete fingerprints, tap ⋮ → **Deregister**, select fingerprints, and then tap 🗑 → **OK**.

To rename a fingerprint, tap and hold a fingerprint, tap ✎, and then enter a new name, and then tap **OK**.

Changing the alternative password

You can change the password that you use as an alternative to scanning your fingerprints.

1. On the Apps screen, tap **Settings** → **Device** → **Finger Scanner** → **Change alternative password**.
2. Scan a registered fingerprint or tap **Alternative password**.
3. Enter a new password and tap **Continue**.
4. Enter the password again and tap **OK**.

Unlocking the screen with fingerprints

You can unlock the screen with the registered fingerprints.

On the Apps screen, tap **Settings** → **Device** → **Finger Scanner** → **Screen lock** → **Fingerprint**. Alternatively, on the Apps screen, tap **Settings** → **Device** → **Lock screen** → **Screen lock** → **Fingerprint**.

Verifying the Samsung account password

Use fingerprints to verify your Samsung account password. You can use a fingerprint instead of entering your password, for example, when you purchase content from **Samsung Apps**.

On the Apps screen, tap **Settings** → **Device** → **Finger Scanner** → **Verify Samsung account**, and then tap the switch at the top right of the screen to activate it. Enter your Samsung account password and tap **Done**.

Using fingerprints for purchases via PayPal

You can make purchases by scanning your fingerprints.

This feature may not be available depending on the region or service provider.

1 On the Apps screen, tap **Settings** → **Device** → **Finger Scanner** → **Pay with PayPal**.

2 Tap **Install** under **FIDO Ready™ support**.

3 Tap **Link** under **PayPal account**.

4 Follow the on-screen instructions to sign in to the PayPal website and register your fingerprints.

Private mode

About private mode

Use this mode to prevent others from using or accessing specific content, such as images and documents, stored on the device. You can save content to a specific location and deactivate private mode to hide items securely.

Hiding content

1 On the Apps screen, tap **Settings** → **Device** → **Private mode**, and then tap the **Private mode** switch to activate it. Alternatively, open the quick setting panel and tap **Private mode** to activate it.

When you activate private mode for the first time, set an unlock code and a backup PIN.

2 Enter the private mode unlock code.

When this mode is activated, appears at the top of the screen.

3 To select items to hide, tap and hold an item in the list, tick items to select, and then tap ⋮ → **Move to Private**.

Items that are moved to private mode appear with on them.

4 When you have selected the items to hide, open the Apps screen, tap **Settings** → **Device** → **Private mode**, and then tap the **Private mode** switch to deactivate it. Alternatively, open the quick setting panel and tap **Private mode** to deactivate it.

The selected items will disappear from the screen.

Ensure that all files are saved or moved properly before deactivating private mode.

Viewing hidden content

You can only view hidden items when private mode is activated.

1 On the Apps screen, tap **Settings** → **Device** → **Private mode**, and then tap the **Private mode** switch to activate it. Alternatively, open the quick setting panel and tap **Private mode** to activate it.

2 Enter the private mode unlock code.

3 On the Apps screen, tap **My Files** → **Private**.

All items moved in private mode appear on the screen.

Multiple users

Set up additional user accounts for other users to use the device with personalised settings, such as email accounts, wallpaper preferences, and more. Following types of user accounts are available.

- **Owner**: The owner account is created only when setting up the device for the first time, and cannot be created more than one. This account has full control of the device including user account management.
- **User**: This account allows users to access their own apps and content, and customise the device settings that affect all accounts.
- **Restricted profile**: A restricted account can only access the apps and content allowed by the owner account, and cannot use the services that require logging in.

Adding users

1 On the Apps screen, tap **Settings** → **Device** → **Users**.

2 Tap + → **User** → **OK** → **Set up now**.

3 Follow the on-screen instructions to complete the account setup.

Adding restricted profiles

1 On the Apps screen, tap **Settings** → **Device** → **Users**.

2 Tap + → **Restricted profile**.

3 Set an unlock code, and then select the apps and content that restricted users are allowed to access.

Switching users

Tap ◀ at the top of the locked screen. Select the account to switch to, and then unlock the device.



Managing users

When using the owner account, you can delete accounts or change the account settings.

On the Apps screen, tap **Settings** → **Device** → **Users** and select an account under **USERS & PROFILES**. Then, select or deselect apps and content to allow or restrict the account's access to them.

To delete the account, tap 🗑.

Transferring data from your previous device

Using backup accounts

You can transfer backup data from your previous device to your new device using your Google or Samsung account. Refer to Backing up and restoring data for more information.

Using Samsung Smart Switch

You can transfer data of the previous device to a new device via Smart Switch (for mobiles and computers). Visit www.samsung.com/smartswitch for more information.

Samsung Smart Switch is not supported on some devices or computers.

Using Smart Switch Mobile

Use this app to transfer data from your previous iPhone or Android device to your new device. You can download the app from **Samsung Apps** or **Play Store**.

1 On your device, tap **Smart Switch Mobile**.

2 On your device, select an option depending on the previous device type and follow the on-screen instructions.

If the previous device is an Android device, ensure that the Smart Switch Mobile app is installed on the device. Refer to the help for more information.

Using Smart Switch with computers

Use this feature to import a backup of your data (from selected manufacturer's mobile devices) from a computer to your device. You can download the app from www.samsung.com/smartswitch.

1 Back up data from a previous device to the computer. For more information, contact the device's manufacturer.

2 On the computer, launch Smart Switch.

3 Connect your current device to the computer using the USB cable.

4 On the computer, click the manufacturer of the previous device and follow the on-screen instructions to transfer data to your device.

Using Samsung Kies

Import a backup of your data from your computer via Samsung Kies to restore data on your device. You can also back up data to the computer via Samsung Kies. Refer to Connecting with Samsung Kies for more information.

Setting up accounts

Adding accounts

Some apps used on your device require a registered account. Create accounts to have the best experience with your device.

On the Apps screen, tap **Settings** → **General** → **Accounts** → **Add account** and select an account service. Then, follow the on-screen instructions to complete the account setup.

To sync content with your accounts, select an account and tick items to sync.

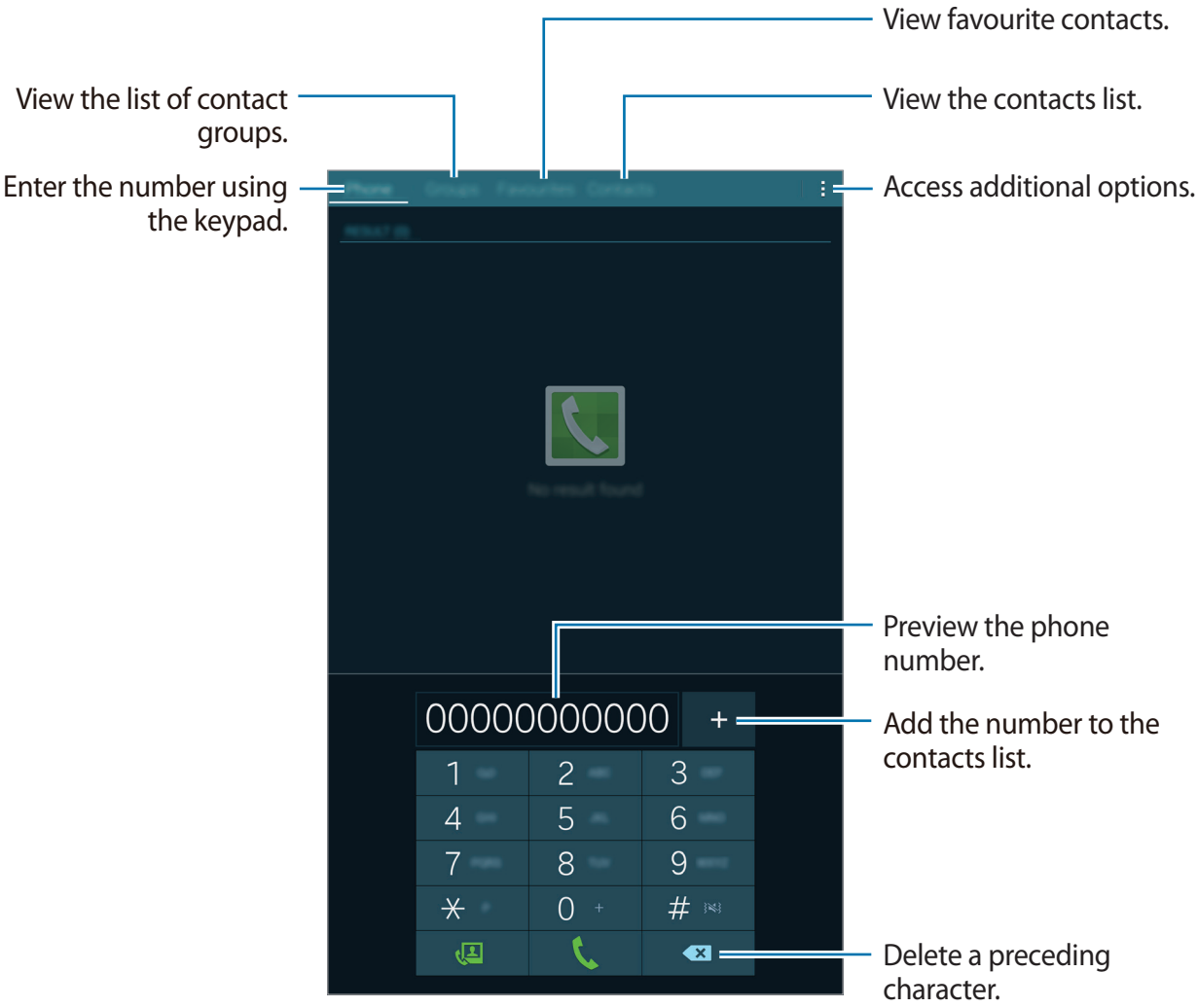
Removing accounts

On the Apps screen, tap **Settings** → **General** → **Accounts**, select an account name under **MY ACCOUNTS**, select the account to remove, and then tap 🗑.

Phone

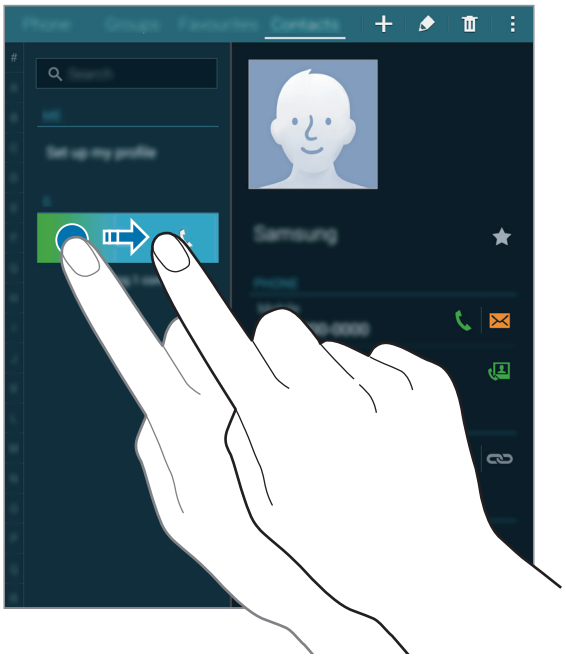
Tap **Phone** on the Apps screen.

Enter a phone number and tap to make a voice call, or tap to make a video call. You can also make calls to phone numbers listed in **Groups**, **Favourites**, and **Contacts**.



Making calls from contact groups or contacts list

Tap **Groups** or **Contacts**, and then drag a contact or a phone number to the right to make a call.



Making calls from the favourites list

You can easily call contacts that you communicate with frequently by adding them to the favourite contacts list.

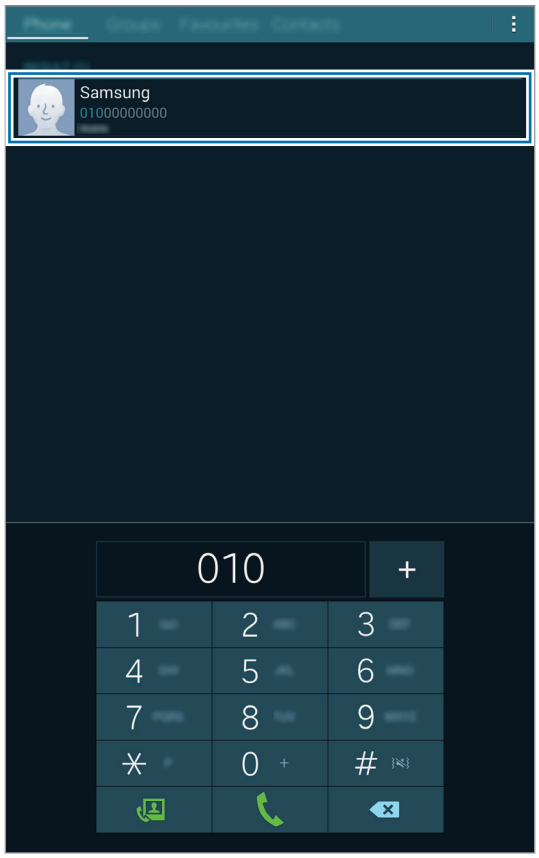
To add contacts to the favourites list, tap **Contacts**, select a contact, and then tap ★.

To make a call to a favourite contact, tap **Favourites** and select a contact.

Number prediction

Tap **Phone**.

When entering numbers on the keypad, automatic predictions appear. Select one of these to make a call.



Speed dial numbers

Tap **Phone**.

For speed dial numbers, tap and hold the corresponding digit.

To assign a contact to a speed dial number, tap and hold an available speed dial number on the keypad, tap **OK**, and then select a contact. Or, tap **Contacts** → ⋮ → **Speed dial setting**, select a number, and then select a contact.

Making an international call

Tap **Phone**.

Tap and hold **0** until the + sign appears. Enter the country code, area code, and phone number, and then tap .

To block outgoing international calls, tap → **Call settings** → **Call settings** → **More settings** → **Call barring**. Then, select a call type and deselect **International calls**.

Receiving calls

Answering a call

When a call comes in, drag outside the large circle.

If the call waiting service is activated, another call can be answered. When the second call is answered, the first call is put on hold.

Rejecting a call

When a call comes in, drag outside the large circle.

To send a message when rejecting an incoming call, drag the reject message bar upwards.

To create various rejection messages, open the Apps screen, tap **Phone** → → **Call settings** → **Call settings** → **Call rejection** → **Rejection messages** → +.

Automatically rejecting calls from unwanted numbers

1 Tap **Phone** on the Apps screen.

2 Tap → **Call settings** → **Call settings** → **Call rejection** → **Auto reject mode** → **Auto reject numbers**.

3 Tap **Auto reject list** → +, enter a number, and then assign a category.

4 Tap **Save**.

Missed calls

If a call is missed, appears on the status bar. Open the notifications panel to view the list of missed calls. Alternatively, on the Apps screen, tap **Phone** → **Phone** to view missed calls.

Options during calls

During a voice call

The following actions are available:

- : Switch to a Bluetooth headset if it is connected to the device.
- : Activate drag and drop mode to share text or images with the other party. Refer to Sharing content in drag and drop mode for more information.
- : Adjust the volume.
- **Add call**: Dial a second call.
- **End call**: End the current call.
- **Speaker**: Activate or deactivate the speakerphone. When using the speakerphone, speak into the microphone at the top of the device and keep the device away from your ears.
- **Keypad**: Open the keypad.
- **Mute**: Turn off the microphone so that the other party cannot hear you.
- ⋮ → **Enable extra volume**: Increase the volume.
- ⋮ → **Hold**: Hold a call. Tap **Unhold** to retrieve the held call.
- ⋮ → **Contacts**: Open the contacts list.
- ⋮ → **Messages**: Send a message.
- ⋮ → **Settings**: Change the call settings.

When you launch apps during a call, a pop-up window for the call screen ( ) appears. You can continue your phone conversation while using apps.

To move the pop-up window, drag it to another location.

To delete the pop-up window, tap and hold it, and then tap **OK**.

To return to the call screen, tap the pop-up window.

Sharing content in drag and drop mode

You can share text or images with the other party during a call by dragging an item and dropping it in the call screen.

Tap on the call screen. Tap and hold the text or image you want to share and drag it to the call screen.

If you use Multi window apps during a call, select the app window, tap the circle between the app windows, and then tap . Tap and hold the text or image you want to share and drag it to the call screen.



Some apps may not support this feature.

During a video call

The following actions are available:

- : Switch to a Bluetooth headset if it is connected to the device.
- : Adjust the volume
- **Mute**: Turn off the microphone so that the other party cannot hear you.
- **End call**: End the current call.
- → **Keypad**: Open the keypad.
- → **Switch to headset** / **Switch to phone**: Switch sound output to a connected Bluetooth headset or back to the device's speaker.
- → **Speaker off** / **Speaker on**: Active or deactivate the speakerphone. When using the speakerphone, speak into the microphone at the top of the device and keep the device away from your ears.
- → **Animated emotions**: Apply emotional icons to your image.
- → **Theme view**: Apply decorative icons to your image.
- → **Enable cartoon view** / **Disable cartoon view**: Enable or disable cartoon view mode.
- → **Enable dual camera** / **Disable dual camera**: Enable or disable the dual camera feature. Use the front and rear cameras so that the other party can see you and your surroundings.

Video calling with dual camera mode will be provided for up to 3 minutes. After 3 minutes the device will turn off the rear camera for optimal performance.

Tap the other party's image to use the following options:

- : Enlarge the image size.
- **Capture image**: Capture the other party's image.
- **Record video**: Record a video of the other party's images.

Tap your image to use the following options:

- : Switch between the front and rear cameras.
- **Hide me**: Hide your image from the other party.
- **Outgoing image**: Select an image to show it to the other party.

Contacts

Adding contacts

Moving contacts from other devices

You can move contacts from other devices to your device. Refer to Transferring data from your previous device for more information.

Creating contacts manually

1 On the Apps screen, tap **Contacts** → **Contacts**.

2 Tap + and enter contact information.

- : Add an image.
- + / −: Add or delete a contact field.

3 Tap **Save**.

To add a phone number to the contacts list from the **Phone**, tap **Phone**, enter the number, and then tap +.

Creating contacts from business cards

Take a photo of a business card and extract contact information from it.

1 On the Apps screen, tap **Contacts** → **Contacts**.

2 Tap ⋮ → **Business cards** → +.

To select or add languages to recognise, tap ⋮ → **Target language**.

3 Place a business card on the flat surface and rotate the device to landscape orientation.

4 Adjust the device to fit the card inside the frames on the screen. When the frames turn green, the device automatically takes a photo. The device also reads the contact information from the business card and converts it to a contact entry.

- If the device does not take the photo automatically, tap .
- To take photos of business cards manually, tap → **Auto capture** → **Off**.
- To extract text from a stored image, tap → **Load image**.

5 Edit or add more information and tap **Save**.

Managing contacts

Editing a contact

1 On the Apps screen, tap **Contacts** → **Contacts**.

2 Select a contact to edit and tap .

3 Edit the contact information or tap **Add another field** to add more contact information.

4 Tap **Save**.

Deleting a contact

Select a contact to delete and tap .

Sharing a contact

Select a contact to share, tap → **Share namecard via**, and then select a sharing method.

Managing groups

On the Apps screen, tap **Contacts** → **Groups**.

Creating a new group

Tap +, enter a group name, and then tap **Save**.

Adding contacts to a group

Select a group, and then tap ⋮ → **Add member**. Select contacts to add, and then tap **Done**.

Deleting a group

Tap ⋮ → **Delete groups**, select user-added groups, and then tap **Done**.

Sending a message or an email to group members

Select a group, tap ⋮ → **Send message** or **Send email**, select members, tap **Done**, enter a message, and then tap the send button.

Merging contacts with accounts

Merge contacts that are saved in the device with your accounts.

On the Apps screen, tap **Contacts** → **Contacts**.

Tap ⋮ → **Merge accounts** → **Merge with Google** or **Merge with Samsung**.

Importing and exporting contacts

Import contacts from storage services to your device or export contacts from the device to storage services.

On the Apps screen, tap **Contacts** → **Contacts**.

Tap ⋮ → **Settings** → **Import/Export**, and then select an import or export option.

Searching for contacts

On the Apps screen, tap **Contacts** → **Contacts**.

Use one of the following search methods:

- Scroll up or down the contacts list.
- Drag a finger along the index at the left side of the contacts list to scroll through it quickly.
- Tap the search field at the top of the contacts list and enter search criteria.

Once a contact is selected, take one of the following actions:

- ★ : Add to favourite contacts.
- / : Make a voice or video call.
- : Compose a message.
- : Compose an email.

Adding shortcuts for contacts to the Classic Home screen

Add shortcuts to contacts that you frequently communicate with on the Classic Home screen.

1 On the Apps screen, tap **Contacts** → **Contacts**.

2 Select a contact.

3 Tap ⋮ → **Add shortcut to home**.

Messages & email

Messages

Sending messages

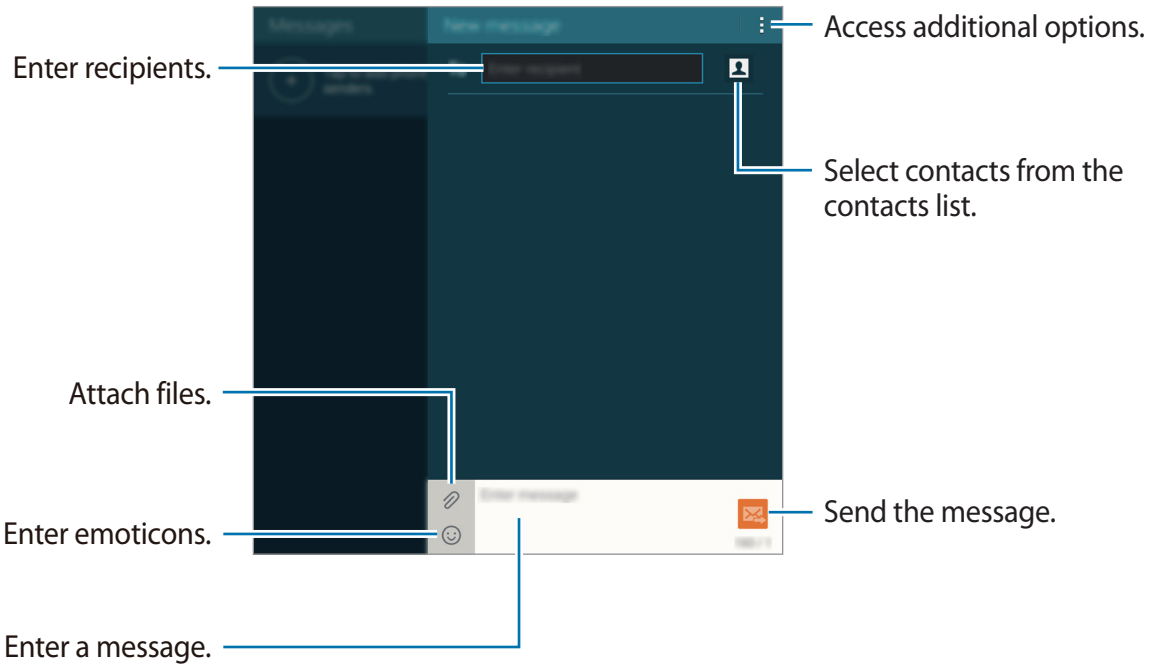
Send text messages (SMS) or multimedia messages (MMS).

You may incur additional charges for sending or receiving messages when you are roaming.

1 Tap **Messages** on the Apps screen.

2 Tap .

3 Add recipients and enter a message.



4 Tap to send the message.

While composing a message, tap ⋮ to use one of the following options:

- **Add to Contacts**: Add the contact to the contacts list.
- **View contact**: View the contact's information.
- **Add text**: Insert a contact information, message template, and more into the message.
- **Insert smiley**: Enter emoticons.
- **Add subject**: Enter a subject.
- **Add slide**: Add message slides.
- **Schedule message**: Set a specified time and date for a message to be sent.
- **Discard**: Cancel composing the message.
- **Font size**: Change the font size of text in the text field.

Sending scheduled messages

While composing a message, tap ⋮ → **Schedule message**. Set a time and date and tap **OK**.

- If the device is turned off at the scheduled time, is not connected to the network, or the network is unstable, the message will not be sent.
- This feature is based on the time and date set on the device. Messages may be sent at an incorrect time if you move across time zones or the network does not update the information.

Adding contacts to the priority list

Set contacts that you communicate with frequently as priority contacts. Send them messages by selecting a contact icon from above the messages list.

Tap **Tap to add priority senders.** → **Inbox** or **Contacts**, select contacts to add, and then tap **Done**. To add more contacts, tap ⊕.

To remove contacts from the priority list, tap and hold a contact, and then tap **Edit list of priority senders** → ⊖ → **Save**.

Viewing incoming messages

Incoming messages are grouped into message threads by contact. Select a contact to view the person's messages.

You may incur additional charges for sending or receiving messages when you are roaming.

While viewing a message, tap ⋮ to use one of the following options:

- **Video call**: Make a video call to the contact.
- **View contact**: View the contact's information.
- **Add to Contacts**: Add the contact to the contacts list.
- **Add text**: Insert a contact information, message template, and more into the message.
- **Add recipient**: Add recipients to send the message to.
- **Insert smiley**: Enter emoticons.
- **Add subject**: Enter a subject.
- **Add slide**: Add message slides.
- **Schedule message**: Set a specified time and date from a message to be sent.
- **Add to priority senders** / **Remove from priority senders**: Add contacts to or remove them from the priority senders list.
- **Add to spam numbers** / **Remove from spam numbers**: Identify a phone number as spam or remove a phone number from the spam list.
- **Discard**: Cancel composing the message.
- **Select**: Select messages to apply options.
- **Delete threads**: Delete message threads.
- **Draft messages**: View messages saved for later delivery.
- **Locked messages**: View locked messages.
- **Scheduled messages**: View scheduled messages.
- **Spam messages**: View spam messages.
- **Font size**: Change the font size of text in the text field.
- **Settings**: Change message settings.
- **Help**: View help information about sending and managing messages.

Email

Setting up email accounts

Tap **Email** on the Apps screen.

Set up an email account when opening **Email** for the first time.

Enter the email address and password. Tap **Next** for a private email account, such as Google Mail, or tap **Manual setup** for a company email account. After that, follow the on-screen instructions to complete the setup.

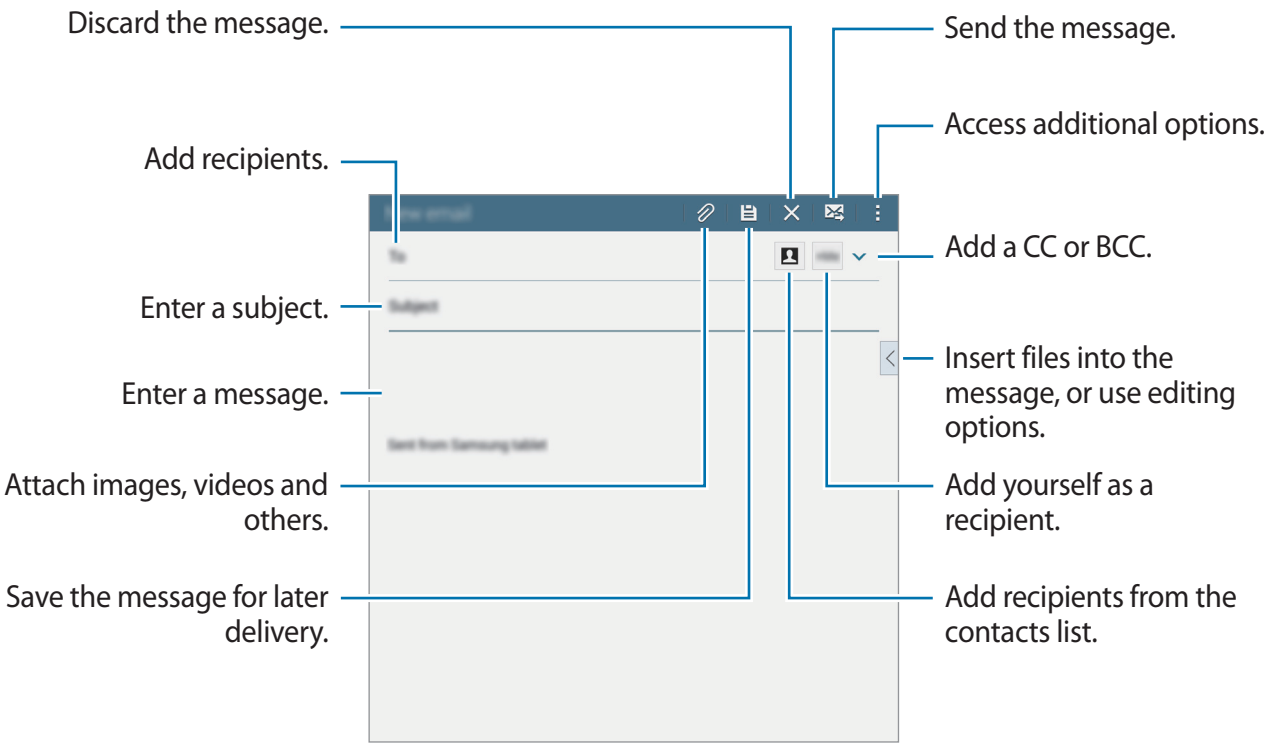
To set up another email account, tap ⋮ → **Settings** → **Add account**.

If you have more than one email account, you can set one as the default account. Tap ⋮ → **Settings**, select an account, and then tick **Default account**.

Sending messages

Tap **Email** on the Apps screen.

Tap ✎ at the top of the screen to compose a message.



Accessing additional options

While composing a message, tap ⋮ and access additional options.

- **Schedule sending**: Send the message at a scheduled time.



  - If the device is turned off at the scheduled time, is not connected to the network, or the network is unstable, the message will not be sent.
  - This feature is based on the time and date set on the device. Messages may be sent at an incorrect time if you move across time zones or the network does not update the information.

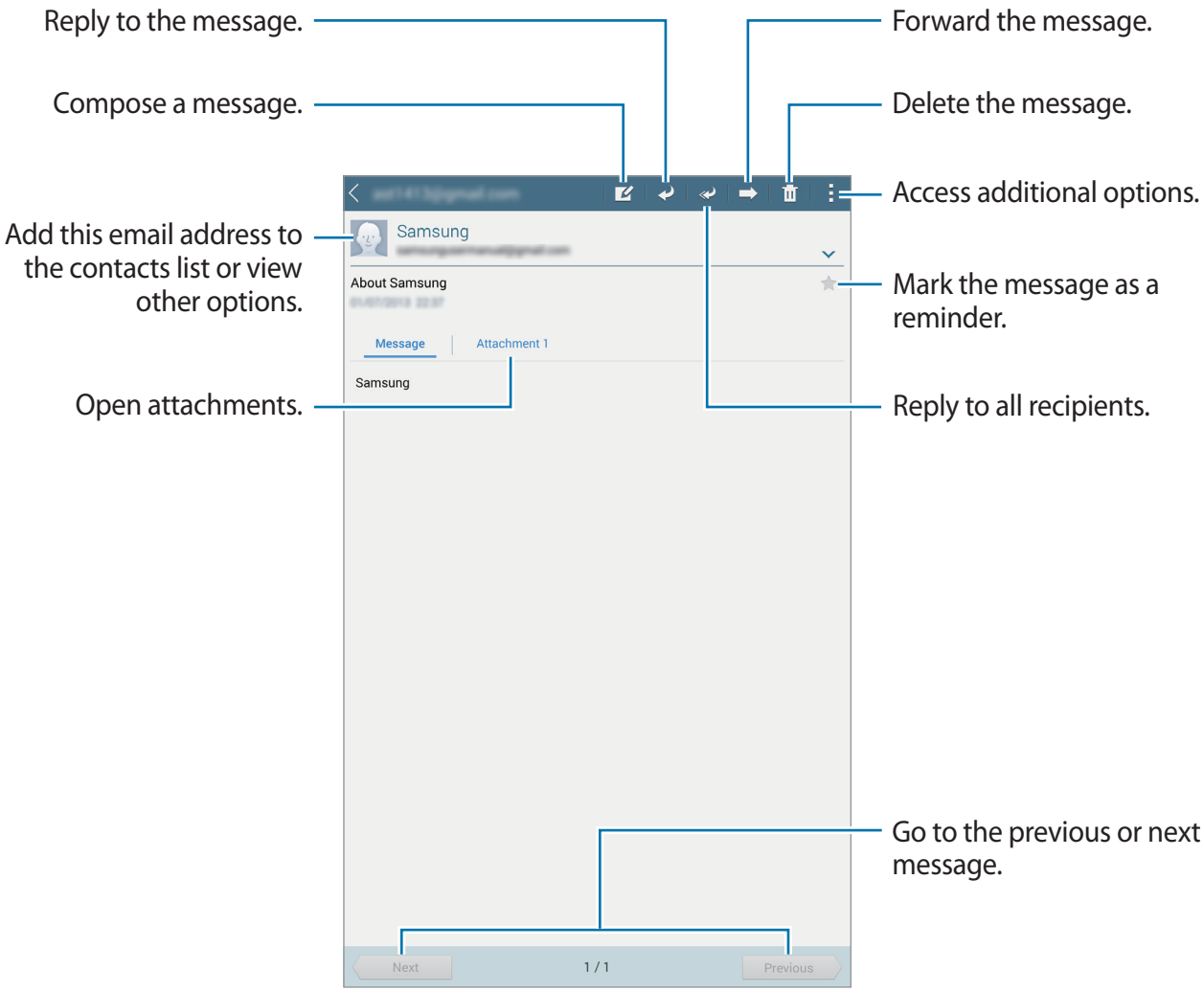
- **Priority**: Select a message's priority level.
- **Security options**: Set security options for the message.

Reading messages

Tap **Email** on the Apps screen.

Select an email account to use, and new messages are retrieved. To manually retrieve new messages, tap ↻.

Tap a message to read.



Camera

Basic shooting

Taking photos or recording videos

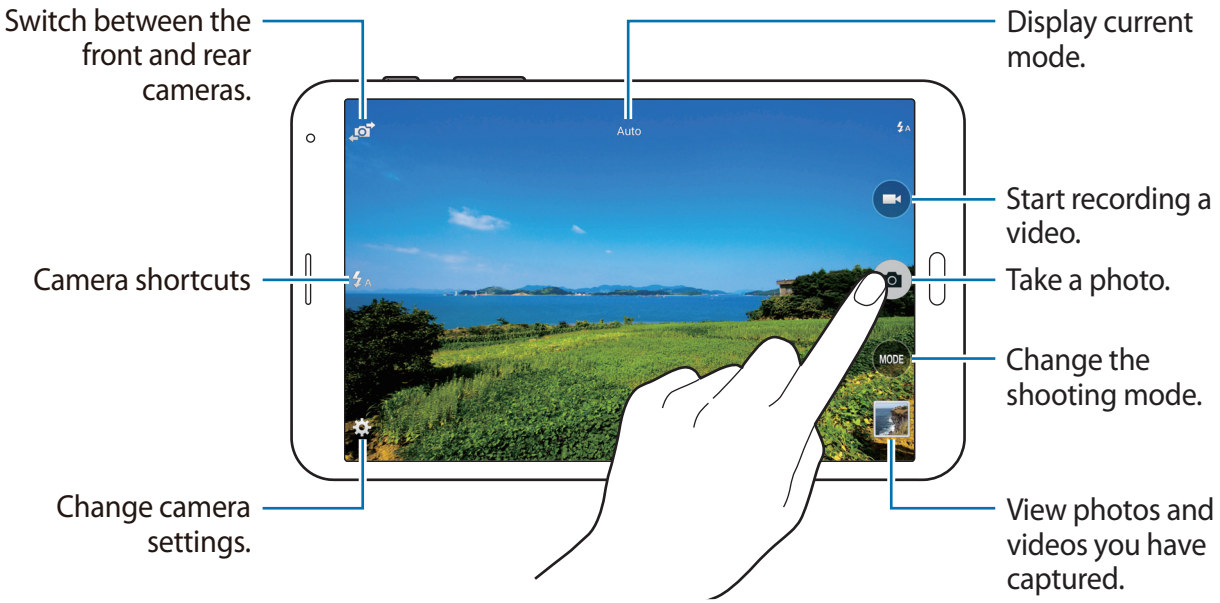
1 Tap **Camera** on the Apps screen.

2 Tap the image on the preview screen where the camera should focus.

When the subject is in focus, the focus frame turns green.

3 Tap to take a photo or tap to record a video.

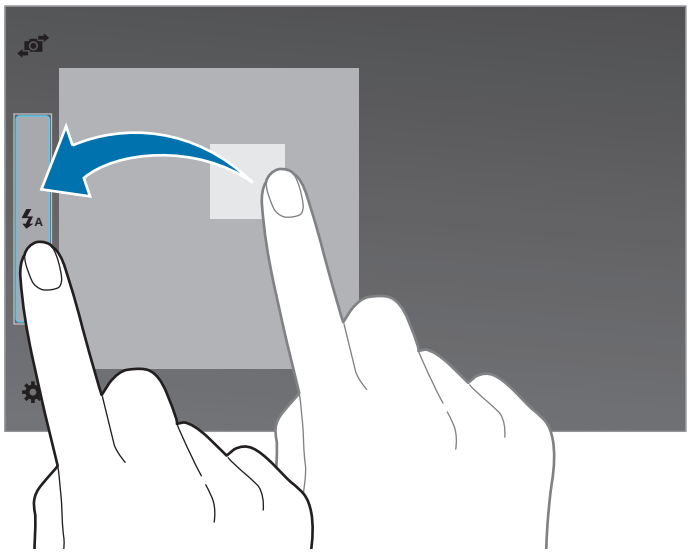
- Spread two fingers apart on the screen to zoom in, and pinch to zoom out.
- To capture an image from the video while recording, tap .
- To change the focus while recording a video, tap where you want to focus. To focus on the centre of the screen, tap .



- The camera automatically shuts off when unused.
- Make sure that the lens is clean. Otherwise, the device may not work properly in some modes that require high resolutions.
- The front camera lens is suitable for taking wide-angle photos. Minor distortion may occur in wide-angle photos and does not indicate device performance problems.

Reorganising camera shortcuts

You can reorganise camera shortcuts for fast and easy access on the preview screen. Tap ⚙ on the preview screen. Tap and hold an item and drag it to a slot at the left of the screen.

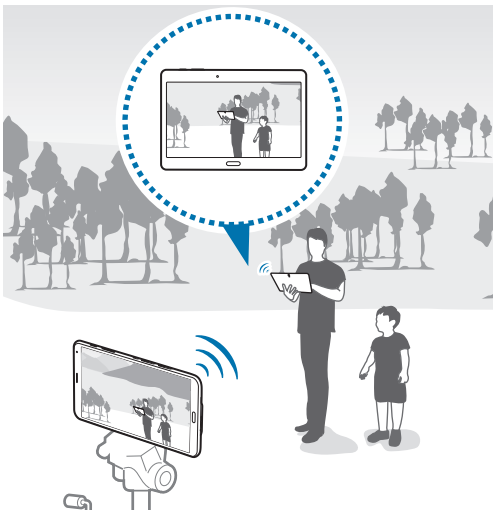


Camera etiquette

- Do not take photos or record videos of other people without their permission.
- Do not take photos or record videos where legally prohibited.
- Do not take photos or record videos in places where you may violate other people's privacy.

Remote viewfinder

Use another device as a viewfinder for your device. You can control your device remotely to take photos or videos from a distance. The connected device displays the same image that is displayed on your device.



1 Tap **Camera** on the Apps screen.

2 Tap ⚙ → **Remote viewfinder**.

3 Tap **Wi-Fi Direct settings** to connect to another device.

4 On the connected device, tap the image on the preview screen where the device should focus, and then tap ● to take the photo.

Ensure that the device you want to connect to supports the remote viewfinder mode.

Shooting modes

Auto

Use this mode to allow the camera to evaluate the surroundings and determine the ideal mode for the photo.

On the Apps screen, tap **Camera** → **MODE** → **Auto**.

Beauty face

Use this mode to take a photo with lightened faces for gentler images.

On the Apps screen, tap **Camera** → **MODE** → **Beauty face**.

Shot & more

Use this mode to take a series of photos and modify them by applying various effects using the shooting modes. The device identifies the photos with in **Gallery**.

The zoom feature is not available while taking photos in this mode.

1 Tap **Camera** on the Apps screen.

2 Tap **MODE** → **Shot & more**.

3 Tap .

The device takes a series of photos and displays the available shooting modes.

4 Select a shooting mode and apply an effect to the photos.

- **Best photo**: Take a series of photos and save the best one. To view other photos in the series, scroll left or right. The device recommends the best photo and identifies it with 👑.
- **Best face**: Take multiple group shots at the same time and combine them to create the best possible image. Tap the white frame on each face and choose the best individual pose for each subject from the poses that appear at the bottom of the screen. Then, merge the images into a single photo. The device recommends the best photo and identifies it with 👑.
- **Drama shot**: Take a series of photos and combine them to create an image that shows motion trails. Extend the motion trail in the image by selecting more photos from the bottom of the screen. To edit the motion trails of selected photos, tap ✏ and select a photo. Tap **Restore** to display subject's motion trails or tap **Remove** to erase the motion trails. Edit the photo as desired and tap **Done**.
- **Eraser**: Erase unwanted moving objects. Tap ⛔ to erase unwanted moving objects. Tap ⊕ to restore the original photo.
- **Panning shot**: Apply an effect to the subject's background that makes the subject appear to be moving fast. Tap **Objects** to select a subject. Tap **Motion blur** to change the angle of blurring to apply to the background. Tap **Angle** → ● and draw a circle with your finger around the large circle to adjust the angle of blurring. To adjust the level of background blurring, tap **Motion blur** and drag the adjustment bar.

5 When you are finished editing photos, tap **Save**.

Panorama

Use this mode to take a photo composed of many photos strung together. The device identifies the photo with ▮■▮ in **Gallery**.

On the Apps screen, tap **Camera** → **MODE** → **Panorama**.

To get the best shot, follow these tips:

- Move the camera slowly in one direction.
- Keep the image within the frame on the camera's viewfinder.
- Avoid taking photos of indistinct backgrounds, such as an empty sky or a plain wall.

HDR (Rich tone)

Use this mode to take photos with rich colours and reproduce details even in bright and dark areas.

On the Apps screen, tap **Camera** → **MODE** → **HDR (Rich tone)**.



Without effect



With effect

Dual Camera

When you take a landscape photo with the rear camera, the photo or video captured by the front camera appears in an inset window, or vice versa. Use this feature to take a beautiful landscape photo and a self-portrait simultaneously.

On the Apps screen, tap **Camera** → **MODE** → **Dual Camera** to switch to dual camera mode. Tap to take a photo or tap to record a video.



- You can record videos in dual camera mode for up to 5 minutes in Full HD and up to 10 minutes in HD or VGA.
- While recording videos in this mode, sound is recorded by the internal microphone.

Managing shooting modes

Select the shooting modes to appear on the mode selection screen.

On the Apps screen, tap **Camera** → **MODE** → **Manage modes**.

Downloading shooting modes

Download more shooting modes from **Samsung Apps**.

On the Apps screen, tap **Camera** → **MODE** → **Download**.

Camera settings

On the Apps screen, tap **Camera** → ⚙. Not all of the following options are available in both still camera and video camera modes. The available options vary depending on the mode used.

- **Picture size**: Select a resolution. Use higher resolution for higher quality. But it takes up more memory.
- **Burst shots**: Take a series of photos of moving subjects.
- **Picture stabilisation**: Set the device to automatically detect darker conditions and adjust the brightness of the photo without the flash.



This option is not available when you record videos.

- **Face detection**: Set the device to recognise people's faces and help you take photos of them.
- **ISO**: Select an ISO value. This controls camera light sensitivity. It is measured in film-camera equivalents. Low values are for stationary or brightly-lit objects. Higher values are for fast-moving or poorly-lit objects.
- **Metering modes**: Select a metering method. This determines how light values are calculated. **Centre-weighted** measures background light in the centre of the scene. **Spot** measures the light value at a specific location. **Matrix** averages the entire scene.
- **Tap to take pics**: Tap the image on the preview screen to take photos.
- **Save as**: Set the device to save both the rich tone photo and original photo, or only the rich tone photo.
- **Video size**: Select a resolution. Use higher resolution for higher quality. But it takes up more memory.
- **Recording mode**: Change the recording mode.
- **Video stabilisation**: Activate or deactivate anti-shake. Anti-shake helps focus when the camera is moving.
- **Effects**: Select a filter effect to use when taking photos or recording videos. To download more effects, tap **Download**. To change the order of effects or hide effects from the list, tap **Manage effects**.

- **Flash**: Activate or deactivate the flash.
- **Timer**: Use this for delayed-time shots.
- **View mode**: Change the aspect ratio of the preview screen.
- **Location tags**: Attach a GPS location tag to the photo.



  - To improve GPS signals, avoid shooting in locations where the signal may be obstructed, such as between buildings or in low-lying areas, or in poor weather conditions.
  - Your location may appear on your photos when you upload them to the Internet. To avoid this, deactivate the GPS tag setting.

- **Storage location**: Select the memory location for storage.
- **Review pics/videos**: Set the device to show photos or videos after capturing them.
- **Remote viewfinder**: Set the device to use as a viewfinder and control the other device to take photos or record videos. Refer to Remote viewfinder for more information.
- **White balance**: Select an appropriate white balance, so images have a true-to-life colour range. The settings are designed for specific lighting situations. These settings are similar to the heat range for white-balance exposure in professional cameras.
- **Exposure value**: Change the exposure value. This determines how much light the camera's sensor receives. For low-light situations, use a higher exposure.
- **Grid lines**: Display viewfinder guides to help composition when selecting subjects.
- **Volume key**: Set the device to use the Volume button to control the shutter or zoom function.
- **Voice control**: Set the device to take photos with voice commands.
- **Help**: View help information for using the camera.
- **Reset settings**: Reset the camera settings.

Gallery

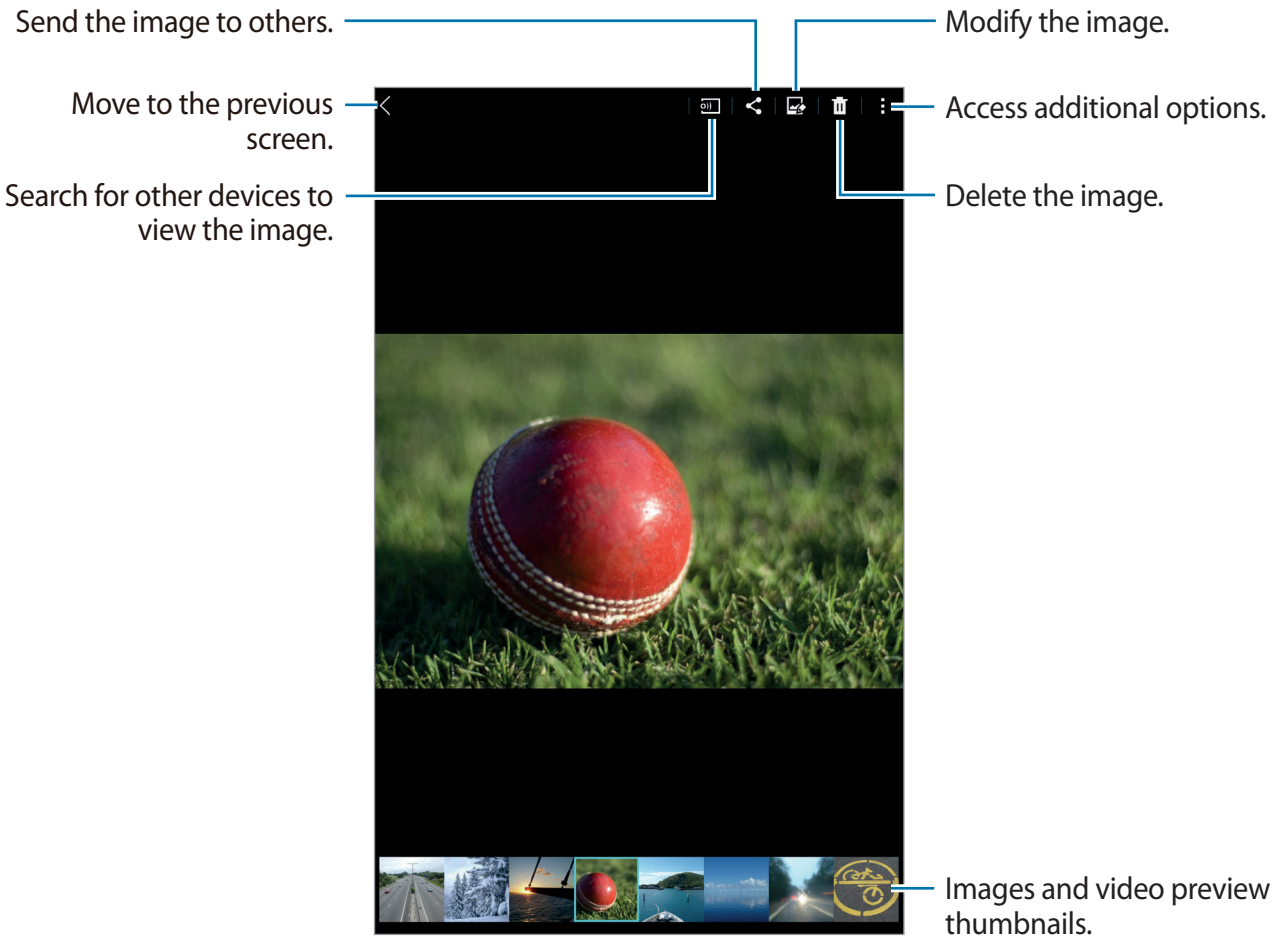
Viewing photos or videos

Viewing content on the device

On the Apps screen, tap **Gallery** and select an image or a video.

Video files show the ▶ icon on the preview thumbnail.

To hide or show the menu bar and the preview thumbnails, tap the screen.



Viewing content stored on other devices

Search for photos and videos that are stored on other devices and view it on your device.

Tap **Gallery** on the Apps screen.

Accessing content on a nearby device

Tap ☰ and select a device in **NEARBY DEVICES** to access content. You can view the photos and videos on the devices that have the content sharing feature activated.

On the Apps screen, tap **Settings** → **Connections** → **Nearby devices**, and then tap the **Nearby devices** switch to activate it. Refer to Nearby devices for more settings.

Selecting a sorting option

The images or videos on your device can be sorted by time or album. You can also filter images and videos by category, such as people or events.

On the Apps screen, tap **Gallery** → ☰, and then select a sorting option.

Accessing additional options

On the Apps screen, tap **Gallery** and select an image or a video. Tap ⋮ and use the following options. The available options may differ depending on the selected file.

- **More info**: View more information about the file.
- **Copy to clipboard**: Copy the file to the clipboard.
- **Studio**: Edit images or videos in studio mode. Refer to Editing photos or videos for more information.
- **Rotate left**: Rotate anticlockwise.
- **Rotate right**: Rotate clockwise.
- **Crop**: Crop the image.
- **Rename**: Rename the file.
- **Slideshow**: Start a slideshow with the images in the current folder.
- **Set as**: Set the image as wallpaper or a contact image.
- **Print**: Print the image by connecting the device to a printer. Refer to Mobile printing for more information.
- **Settings**: Change the Gallery settings.

To select multiple files from the file list, tap and hold a file, and then tap the other files. When the files are selected, you can share or delete them at the same time or tap ⋮ to access additional options.

Editing photos or videos

Photo studio

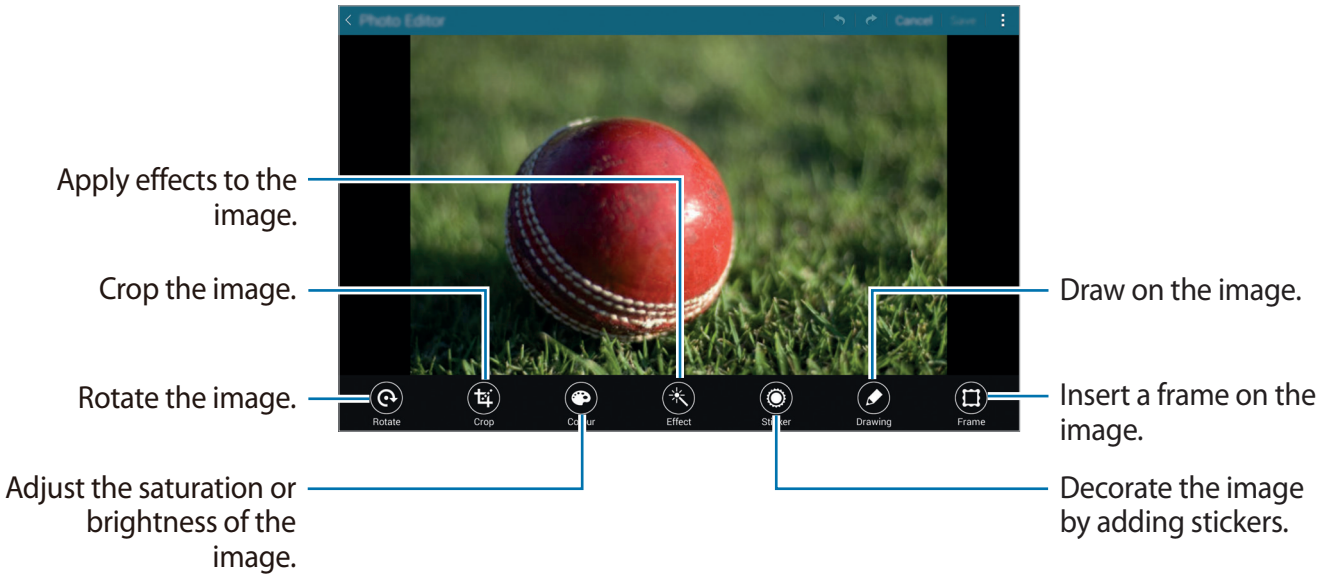
Edit images by applying various effects.

1 Tap **Gallery** on the Apps screen.

2 Tap ⋮ → **Studio** → **Photo studio**.

3 Select an image to edit.

4 Edit the image by applying various effects.



5 When you are finished editing the image, tap ⋮ → **Save as**.

6 Enter a filename and tap **OK**.

The edited photo is saved in the **Studio** folder. To open the folder, tap **Gallery** → ☰ → **Album** → **Studio**.

Collage studio

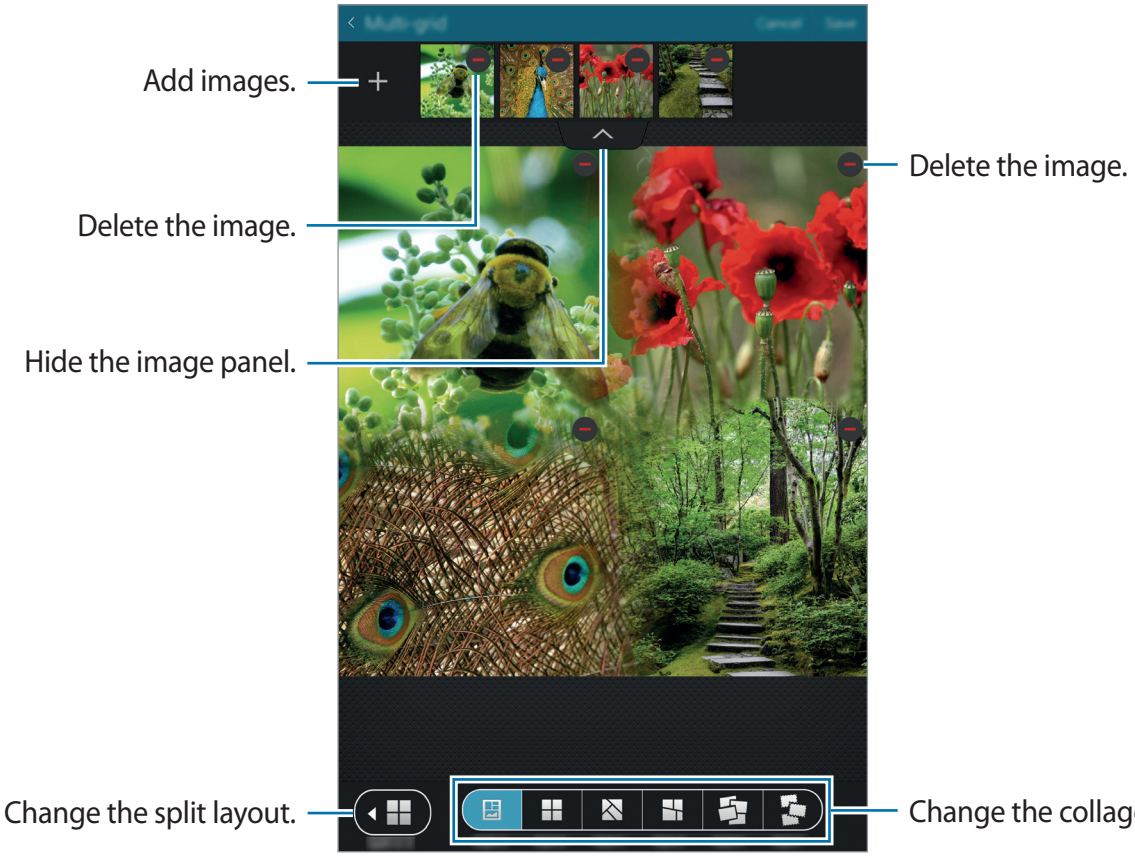
Combine several images together to create a collage.

1 Tap **Gallery** on the Apps screen.

2 Tap ⋮ → **Studio** → **Collage studio**.

3 Select images to combine and tap **Done**.

4 Edit the image by applying various effects.



5 When you are finished editing the images, tap **Save**.

The edited image is saved in the **Studio** folder. To open the folder, tap **Gallery** → ☰ → **Album** → **Studio**.

Shot & more

Apply various effects to the images you have taken.

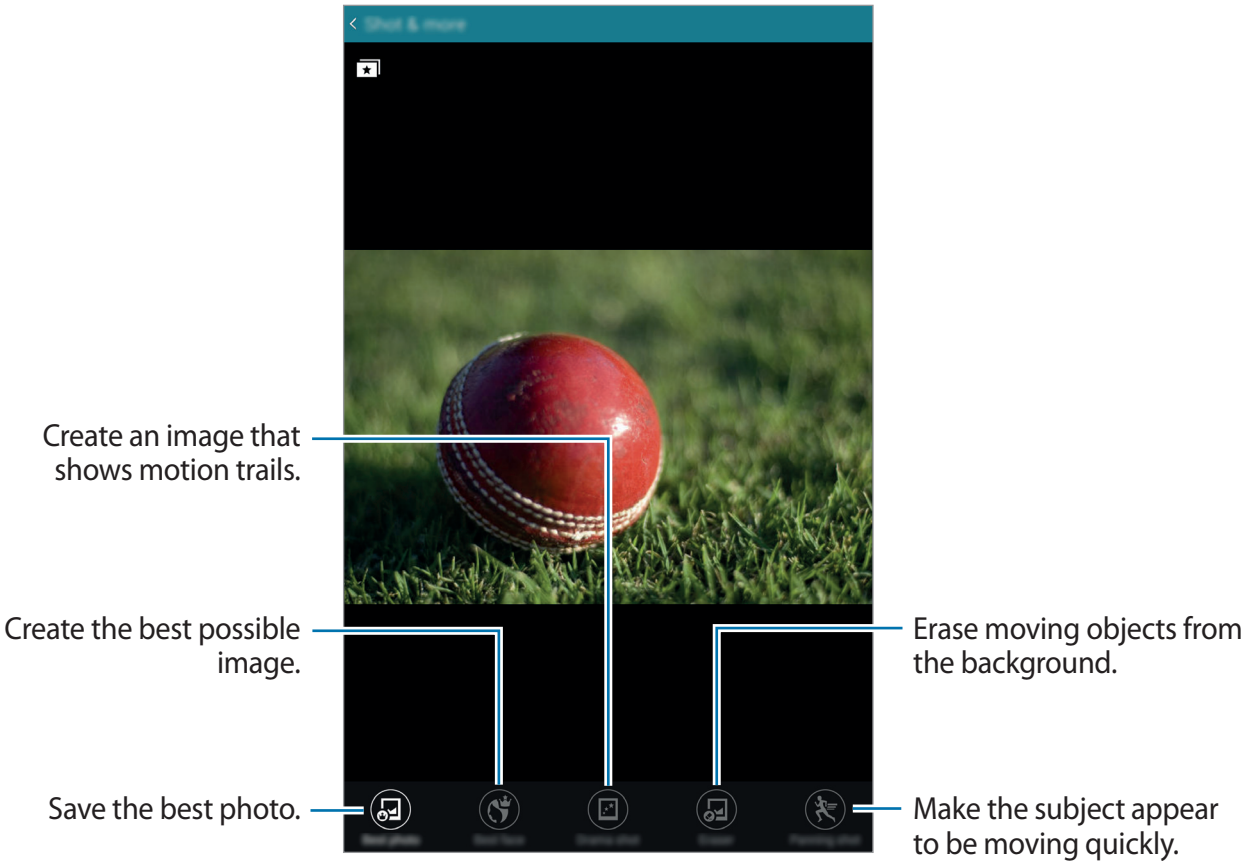
Only photos taken in shot & more mode can be selected.

1 Tap **Gallery** on the Apps screen.

2 Tap ⋮ → **Studio** → **Shot & more**.

3 Select an image to edit.

4 Edit the image by applying various effects.



5 When you are finished editing the image, tap **Save**.

The edited image is saved in the **Studio** folder. To open the folder, tap **Gallery** → ☰ → **Album** → **Studio**.

Video editor

Edit or create videos with multiple images and videos.

To use this feature, you need to download and install the required app.

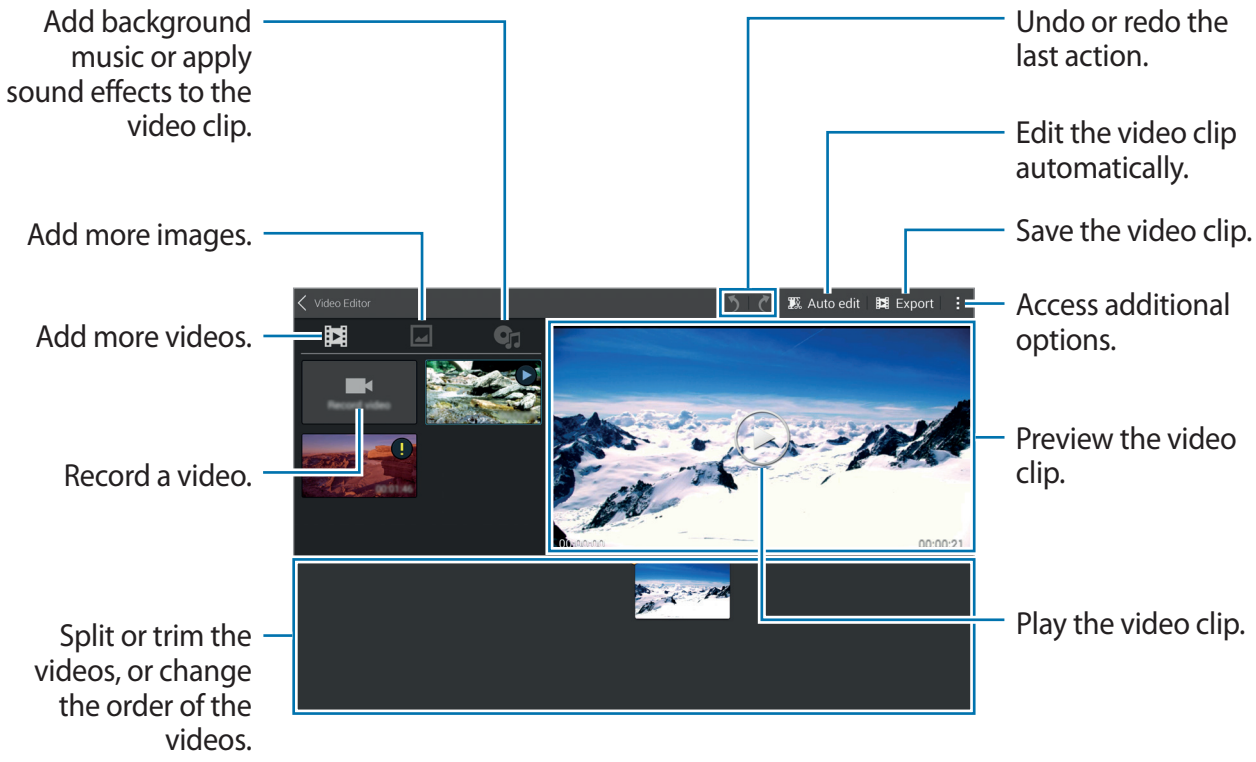
1 Tap **Gallery** on the Apps screen.

2 Tap ⋮ → **Studio** → **Video editor**.

3 Select videos to edit and tap **Done**.

You can also select images to create a video.

4 Edit the video by applying various effects.



5 When you are finished editing the video, tap **Export**.

6 Select a save option and tap **OK**.

The edited video is saved in the **Export** folder. To open the folder, tap **Gallery** → ☰ → **Album** → **Export**.

Video trimmer

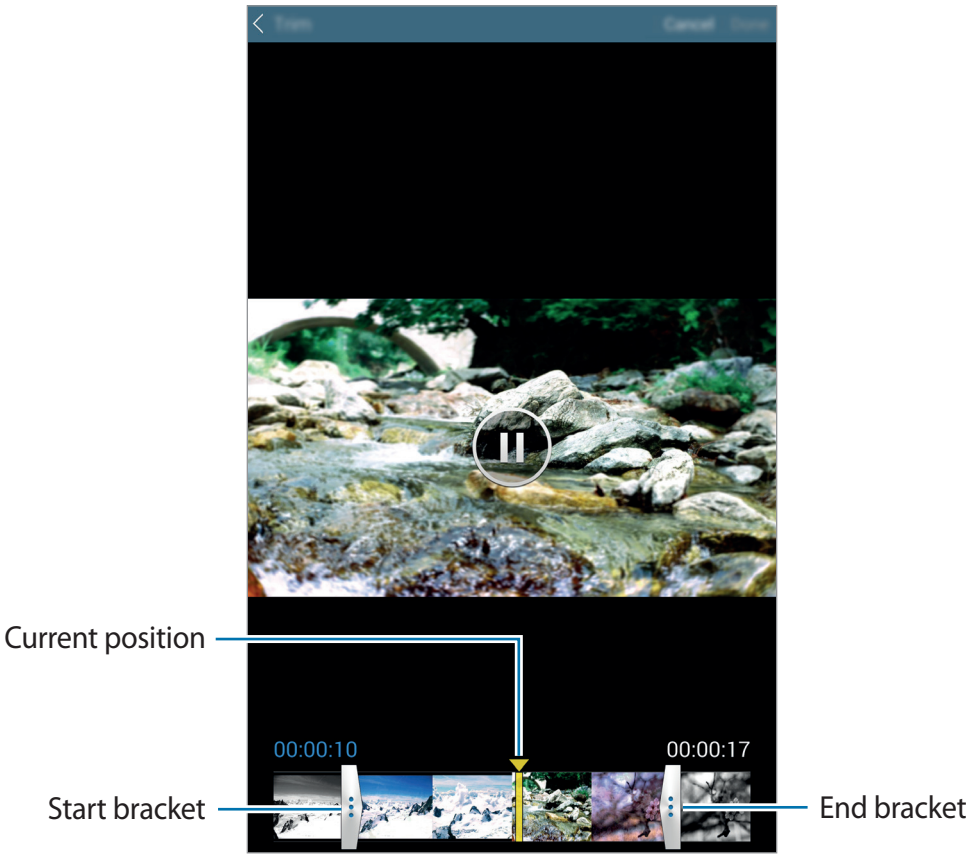
Trim video segments.

1 Tap **Gallery** on the Apps screen.

2 Tap ⋮ → **Studio** → **Video trimmer**.

3 Select a video to edit.

4 Move the start bracket to the desired starting point, move the end bracket to the desired ending point, tap **Done**.



5 Enter a filename, and then tap **OK** to save the video.

Gallery settings

1 Tap **Gallery** on the Apps screen.

2 Tap ⋮ → **Settings**.

3 Use the following options:

- **Social network data management**:
  - **Sync via Wi-Fi only**: Set the device to sync content only when the Wi-Fi connection is activated.
- **Tags**:
  - **Tag buddy**: Tag photos with information, such as date and location. To edit tags, tap the information on an image, tap ✎, edit the details, and then tap **Done**.
  - **Face tag**: Assign tags to faces in an image. A yellow frame appears around a face when it is detected. Select the face, tap **Add name**, and then select a contact to identify the face tag. When the face tag appears on an image, tap it and access various options, such as sending a message to the person.

When you use **Face tag**, face recognition may fail depending on the face angle, face size, skin colour, facial expression, light conditions, or accessories the subject is wearing.

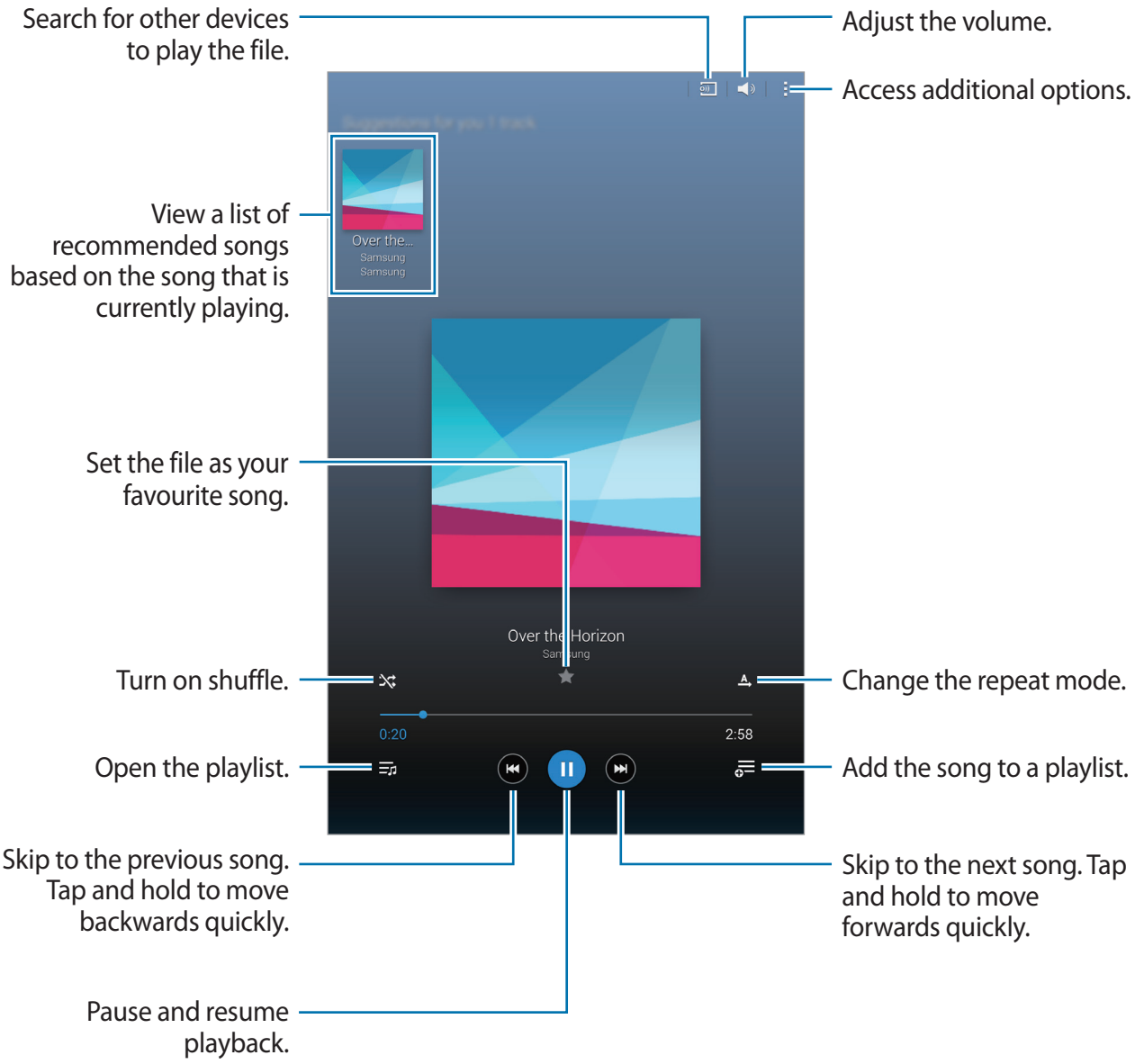
Multimedia

Music

Playing music

Tap **Music** on the Apps screen.

Select a music category, and then select a song to play.



To listen to songs at equal volume levels, tap ⋮ → **Settings** → **Advanced**, and then tick **Smart volume**.

When **Smart volume** is activated, the volume may end up louder than the device volume level. Use caution to avoid long-term exposure to loud sounds to prevent damage to your hearing.

Smart volume may not be activated for some files.

To set a personalised sound while listening to songs with a headset, tap ⋮ → **Settings** → **Advanced** → **Adapt Sound** → **On**.

When you activate this option for the first time, tap **Start** to adjust the sound. The device starts a series of sound tests to adjust the sound level and starts to beep. Tap **Yes** if you can hear the beep or **No** if you cannot. Repeat this step for each test until the sound adjustment is finished. Then, tick **Music sound** and tap **Done** to apply the option when you listen to music.

When you turn the volume up to level 14 or higher, the adapt sound option is not applied to music playback. If you turn the volume down to level 13 or lower, the option is reapplied.

Setting a song as alarm tone

To use the currently-playing song as an alarm tone, tap ⋮ → **Set as** → **From the beginning** or **Auto recommendation**, select an option, and then tap **Done**.

Creating playlists

Make an own selection of songs.

Tap **Music** on the Apps screen.

Tap **Playlists** → ⋮ → **Create playlist**. Enter a title and tap **OK**. Tap +, select songs to include, and then tap **Done**.

To add the currently-playing song to a playlist, tap ≡+ and select the playlist.

Playing music by mood

Use this feature to play music that suits your mood.

Tap **Music** on the Apps screen.

Tap **Music square**. Songs are automatically categorised by mood. Tap a mood cell or drag multiple cells to listen to the music in the cells.

Song categories are based on available information about the song. Some songs may not be categorised in mood cells.

Playing music stored on other devices

Search for music that is stored on other devices and play it on your device.

Tap **Music** on the Apps screen.

Accessing music on a nearby device

Tap **Nearby devices** and select a device to access and play music. You can play the song on the devices with the content sharing feature activated.

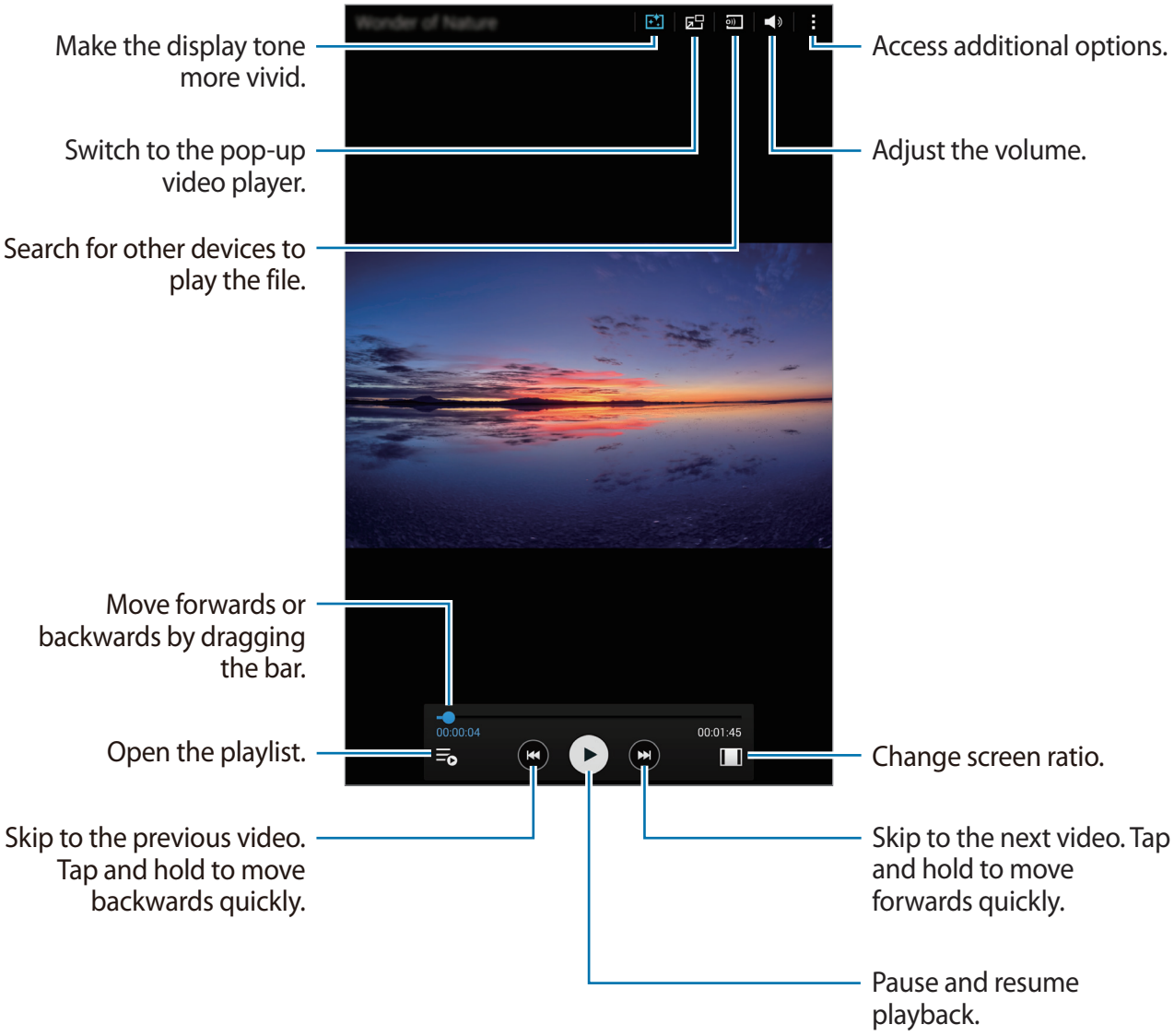
On the Apps screen, tap **Settings** → **Connections** → **Nearby devices**, and then tap the **Nearby devices** switch to activate it. Refer to Nearby devices for more settings.

Video

Playing videos

Tap **Video** on the Apps screen.

Select a video to play.



Using the pop-up video player

Use this feature to use other apps without closing the video player. While watching videos, tap to use the pop-up video player.

Spread two fingers apart on the screen to enlarge the player or pinch to reduce it. To move the player, drag the player to another location.

Capturing images

To use this feature, during playback, tap → **Settings**, tick **Capture**, and then tap **Close**.

Tap to capture an image from the video during playback.

Sharing or deleting videos

Tap **Video** on the Apps screen.

Tap and hold a video, tap , and then select a sharing method.

Tap → **Delete**, select videos, and then tap **Done** → **OK**.

Editing videos

Tap **Video** on the Apps screen.

Select a video, tap → **Edit** → **Studio** → **Video trimmer**. Move the start bracket to the desired starting point, move the end bracket to the desired ending point, tap **Done**, enter a filename, and then tap **OK** to save the video.

To edit videos using a video editor app, tap **Video editor**.

Playing videos stored on other devices

Search for videos that are stored in other devices and play them on your device.

Tap **Video** on the Apps screen.

Accessing a video on a nearby device

Tap **Nearby devices** and select a device to access and play the video. You can play the video on devices that have the content sharing feature activated.

On the Apps screen, tap **Settings** → **Connections** → **Nearby devices**, and then tap the **Nearby devices** switch to activate it. Refer to Nearby devices for more settings.

Useful apps and features

Kids Mode

Starting Kids Mode

Use this widget to provide a fun and safe environment for children by restricting children's access to certain apps or content.

Before you use this widget, you need to download and install it. On the Classic Home screen, tap **Kids Mode** → **Install**.

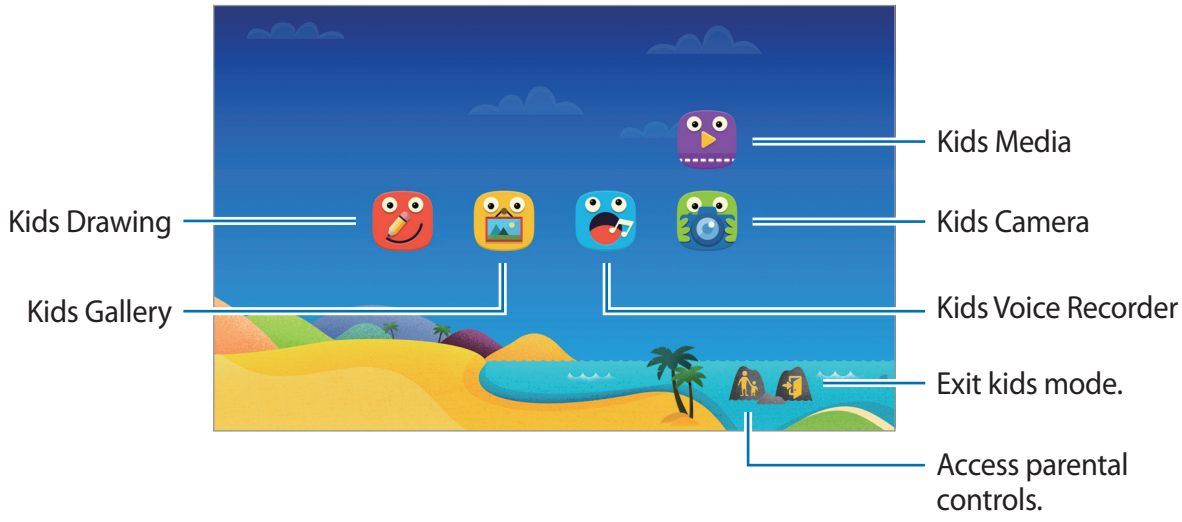
To start kids mode, tap **Kids Mode** on the Classic Home or Apps screen. When it is installed, the widget appears on the Classic Home and App screens.

When you launch this widget for the first time, tap **Set PIN** at the bottom of the screen. Then, follow the on-screen instructions.

If the Kids Mode widget is accidentally uninstalled, you can reinstall it. On the Classic Home screen, tap and hold an empty area, tap **Widgets**, tap and hold the **Kids Mode** widget. Drag the widget to the Classic Home screen and tap **Kids Mode** to reinstall it.

Kids mode home screen

The Home screen is the starting point for accessing all of apps in kids mode.





Use this app to play videos. Before you use this app, add videos that are saved on the device to the app. Refer to Parental control for more information.



Use this app to create a drawing with a pen, a brush, and more.



Use this app to view saved images, drawings, voice recordings, and media files that you allow your child to access.



Use this app to record or play voice recordings.

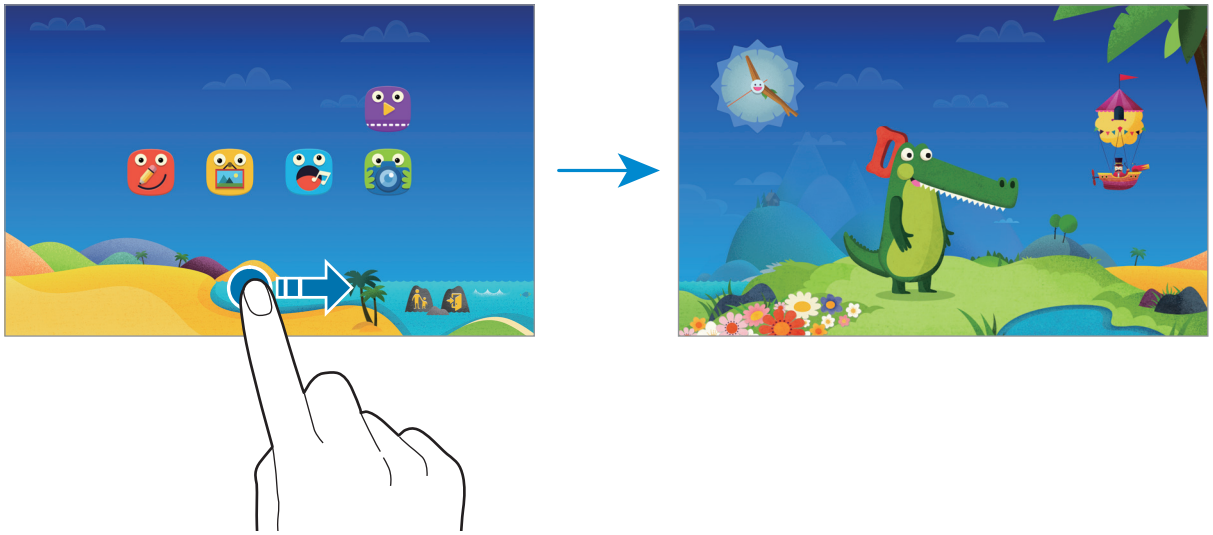


Use this app to take photos or record videos.

Kids mode play area

Scroll right on the Home screen to open kids mode play area.

You can interact with characters, background objects, and more.



Parental control

Use this feature to set restrictions for kids mode to control access to content and apps. You can change kids mode settings, usage time limits, and more.

On the Home screen, tap and enter the PIN.

To exit parental control, press the Home button.

- Children's name: View and edit children's profile.
- **Activity**: View information about how your children use the device, such as playing duration and frequently-used apps.
- **Daily playtime limit**: Set a time limit to manage your children's usage.
- **Applications**: View and add apps that are allowed to be used in kids mode.
- **Media**: Allow your children to access certain images and videos saved on the device.
- **General**: Configure kids mode settings.
- **Kids Store**: Download apps for kids from **Samsung Apps**.

S Finder

Use this app to search for content on the device. You can apply various filters and view the search history.

Open the notifications panel and tap **S Finder**.

Searching for content

Tap the search field and enter a keyword, or tap and say a keyword.

To get more refined results, tap filters under the search field.

To update the list of search results, tap ⋮ → **Refresh**.

To set the search parameters using the available filters, tap ⋮ → **Settings** → **Filter** → **Select filters**.

To select search categories, tap ⋮ → **Settings** → **Search** → **Select search category**.

Managing the search history

You can view or delete your past searches. Select a previous search item to perform the search again.

To delete the search history, tap ⋮ → **Settings** → **Search** → **Delete history**, select search keywords, and then tap **Done**.

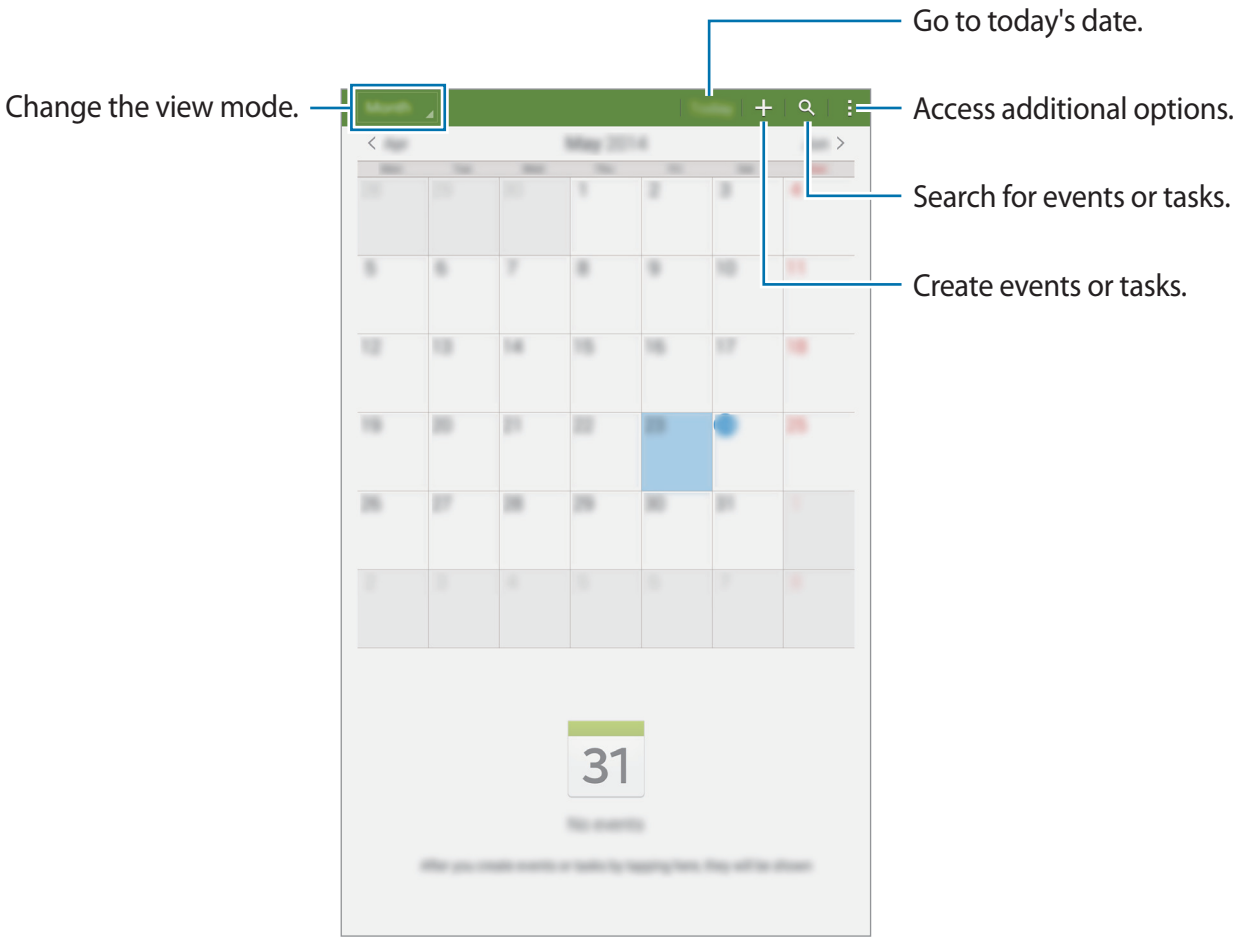
To set the device not to save the search history, tap ⋮ → **Settings** → **Search**, and deselect **Save search history**.

S Planner

Starting S Planner

Use this app to manage events and tasks.

Tap **S Planner** on the Apps screen.



Tap ⋮ and use the following:

- **Go to**: Move to a specific date.
- **Delete**: Delete events or tasks.
- **Calendars**: Select the calendars to display.
- **Sync**: Sync events and tasks with your accounts.
- **Settings**: Change settings for S Planner.

Creating events or tasks

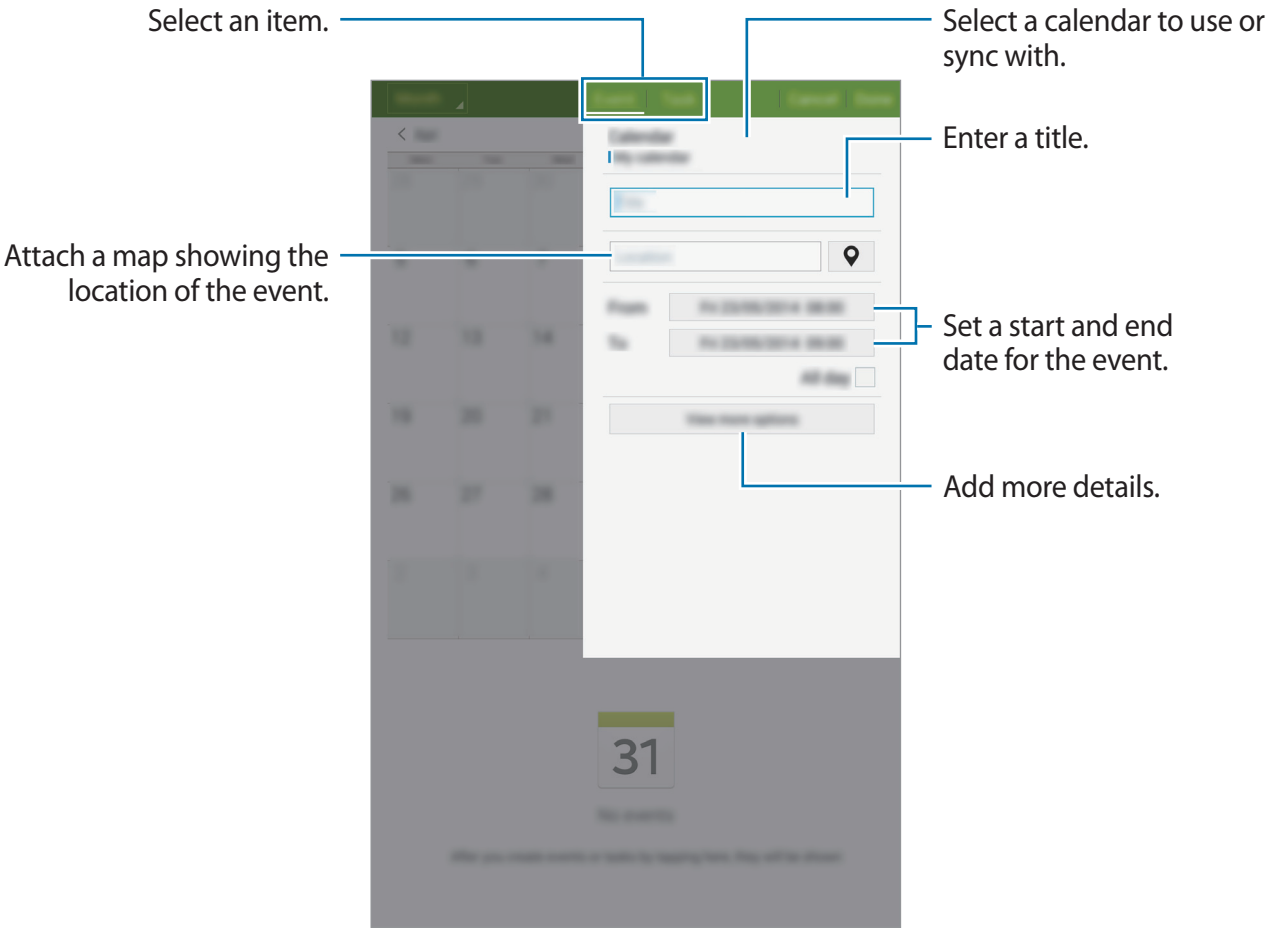
1 Tap **S Planner** on the Apps screen.

2 Tap +. Alternatively, select a date with no events or tasks in it and tap the date again.

If the date already has saved events or tasks in it, tap the date and tap +.

3 Select either event or task and enter details.

- **Event**: Set a start and end date for an event. You can set an optional repeat setting.
- **Task**: Add a task to do on a specific date. You can set an optional priority setting.



4 Tap **Done** to save the event or task.

Syncing events and tasks with your accounts

Tap **S Planner** on the Apps screen.

To sync events and tasks with your accounts, tap ⋮ → **Sync**.

To add accounts to sync with, tap ⋮ → **Calendars** → **Add account**. Then, select an account to sync with and sign in. When an account is added, a green circle is displayed next to the account name.

To change an account's syncing option, open the Apps screen, tap **Settings** → **General** → **Accounts**, and then select an account service.

Deleting events or tasks

Tap **S Planner** on the Apps screen.

To delete events or tasks, tap ⋮ → **Delete**, select the events or tasks, and then tap **Done** → **OK**.

To delete an event or task while viewing it, tap ⋮ → **Delete** → **OK**.

To mark tasks as completed, tap a date that has tasks in it and tick completed tasks.

Sharing events or tasks

Tap **S Planner** on the Apps screen.

To share an event or task while viewing it, tap ⋮ → **Share via**, and then select a sharing method.

S Voice

About S Voice

Use this app to command the device by voice to perform various features.

Tap **S Voice** on the Apps screen. Alternatively, press the Home button twice.

To deactivate the access by pressing the Home button, tap ⋮ → **Settings** → **Wake-up**, and then deselect **Open via the home key**.

This app may not be available depending on the region or service provider.

Setting the language

Tap ⋮ → **Settings** → **General** → **Language**, and then select a language.

The selected language is applied to **S Voice** only, not to the language displayed on the device.

Using S Voice

When you launch **S Voice**, the device starts voice recognition and the microphone icon turns red.

Say a voice command.

If you say a command and the device recognises it, the microphone icon at the bottom of the screen flashes green. Then, the device performs the command.

Tips for better voice recognition:

- Speak clearly.
- Speak in quiet places.
- Do not use offensive or slang words.
- Avoid speaking in dialectal accents.

The device may not recognise your commands or may perform unwanted commands depending on your surroundings or how you speak.

Waking up S Voice in standby mode

If S Voice is not used for a certain period, it automatically switches to standby mode.

Tap the microphone icon or say "Hi Galaxy" to the device to resume voice recognition.

Changing the wake-up command

You can change the wake-up command from "Hi Galaxy". The wake-up command is used to launch **S Voice** when the device is in standby mode.

Tap ⋮ → **Settings** → **Wake-up** → **Voice wake-up** → **Set wake-up command**.

Disabling voice feedback

Tap ⋮ → **Disable Voice feedback**. The device stops providing voice feedback when you say commands.

Correcting unwanted voice commands

You can edit the voice commands if the device does not recognise them correctly.

To correct a voice command, tap the last speech bubble that contains your spoken text and edit the text with the keyboard.

Calculator

Use this app for simple or complex calculations.

Tap **Calculator** on the Apps screen.

Rotate the device to landscape orientation to display the scientific calculator. If **Screen rotation** is disabled, tap ⋮ → **Scientific calculator**.

To see the calculation history, tap ⌄ to hide the keypad.

To clear the history, tap ⋮ → **Clear history**.

Clock

Alarm

On the Apps screen, tap **Clock** → **Alarm**.

Setting alarms

Tap + in the alarms list, set an alarm time, select the days on which the alarm will repeat, set other various alarm options, and then tap **Save**. To activate or deactivate alarms, tap next to the alarm in the alarms list.

- **Snooze**: Set an interval and the number of times for the alarm to repeat after the preset time.
- **Smart alarm**: Set a time and tone for the smart alarm. A smart alarm starts at a low volume a few minutes before a preset alarm is scheduled to sound. The volume of the smart alarm increases gradually until you turn it off or the preset alarm sounds.

Stopping alarms

Drag ✕ outside the large circle to stop an alarm. If you have previously enabled the snooze option, drag zZ outside the large circle to repeat the alarm after a specified length of time.

Deleting alarms

Tap ⋮ → **Delete**, select alarms, and then tap **Done**.

World clock

On the Apps screen, tap **Clock** → **World clock**.

Creating clocks

Tap + and enter a city name or select a city from the cities list.

To apply summer time, tap and hold a clock, and then tap .

Deleting clocks

Tap ⋮ → **Delete**, select clocks, and then tap **Done**.

WatchON

About WatchON

Use this app to connect to a TV and use the device as a remote control. You can search for and select TV programmes and control channels with your device.

Tap **WatchON** on the Apps screen.



Connecting to a TV

1 Tap **WatchON** on the Apps screen.

2 Select a region and the broadcast service, and then follow the on-screen instructions.

The available TV programmes appear.

Using the device as a remote control

You can turn the TV on or off, browse channels, or adjust the volume level on the TV using the device as a remote control.

1 Tap **WatchON** on the Apps screen.

2 Tap → **Setup**.

3 Select the TV brand.

4 Ensure that the device's infrared port is facing the TV and tap **Turn on your TV**. Then, tap **OK** if the device turns on the TV.

If the device does not turn on the TV, tap **Retry**, and then repeat this until the TV recognises the signal.

5 Select a channel source.

6 When the setup is completed, tap .



Watching TV using the device

Select a TV programme from the list of available programmes to watch on the connected TV. Ensure that the device's infrared port is facing the TV.

1 Tap **WatchON** on the Apps screen.

2 Select a category at the bottom of the screen.

3 Select a TV programme and tap **Watch on TV**.
The selected programme will be shown on the connected TV.

4 Tap to change channels or adjust the volume.
The remote control panel appears on the screen.

Setting programme reminders

1 Select a TV programme to watch.

2 Tap , set an alarm to remind you of the TV programme's start time, and then tap **OK**.
The alarm goes off at the preset time.

WebEx

About WebEx

Use this app to host and attend teleconferences. You can use various features, such as content sharing and HD video meeting.

Before using this app

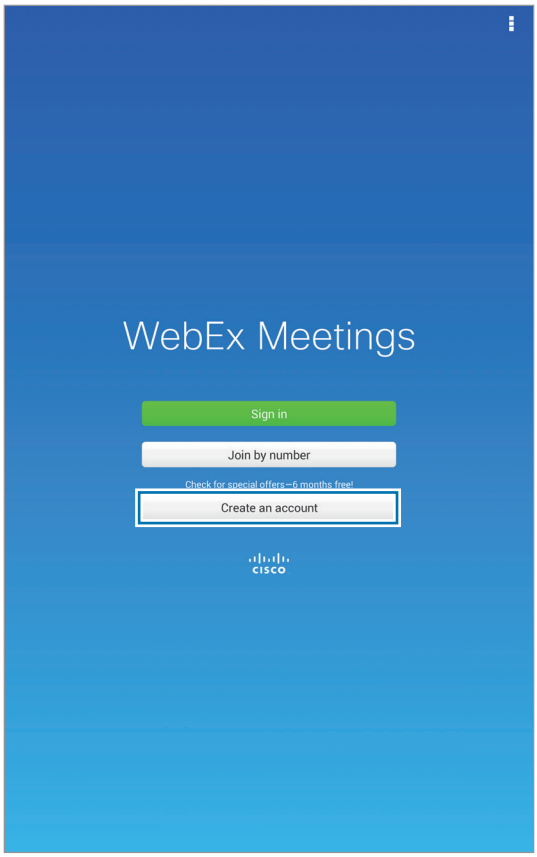
- Ensure that the device is connected to a Wi-Fi network.
- Ensure that you have a WebEx account.

- This app may not be available depending on the region or service provider.
- This app may not work properly depending on firewall and network status.

Signing up for an account

1 Tap **WebEx** on the Apps screen.

2 Tap **Create an account** on the sign in screen.



3 The webpage for joining WebEx will appear on the screen.

You cannot use this app if a pop-up window appears on the screen informing that WebEx is not available in the region.

4 Follow the on-screen instructions to set up the account.

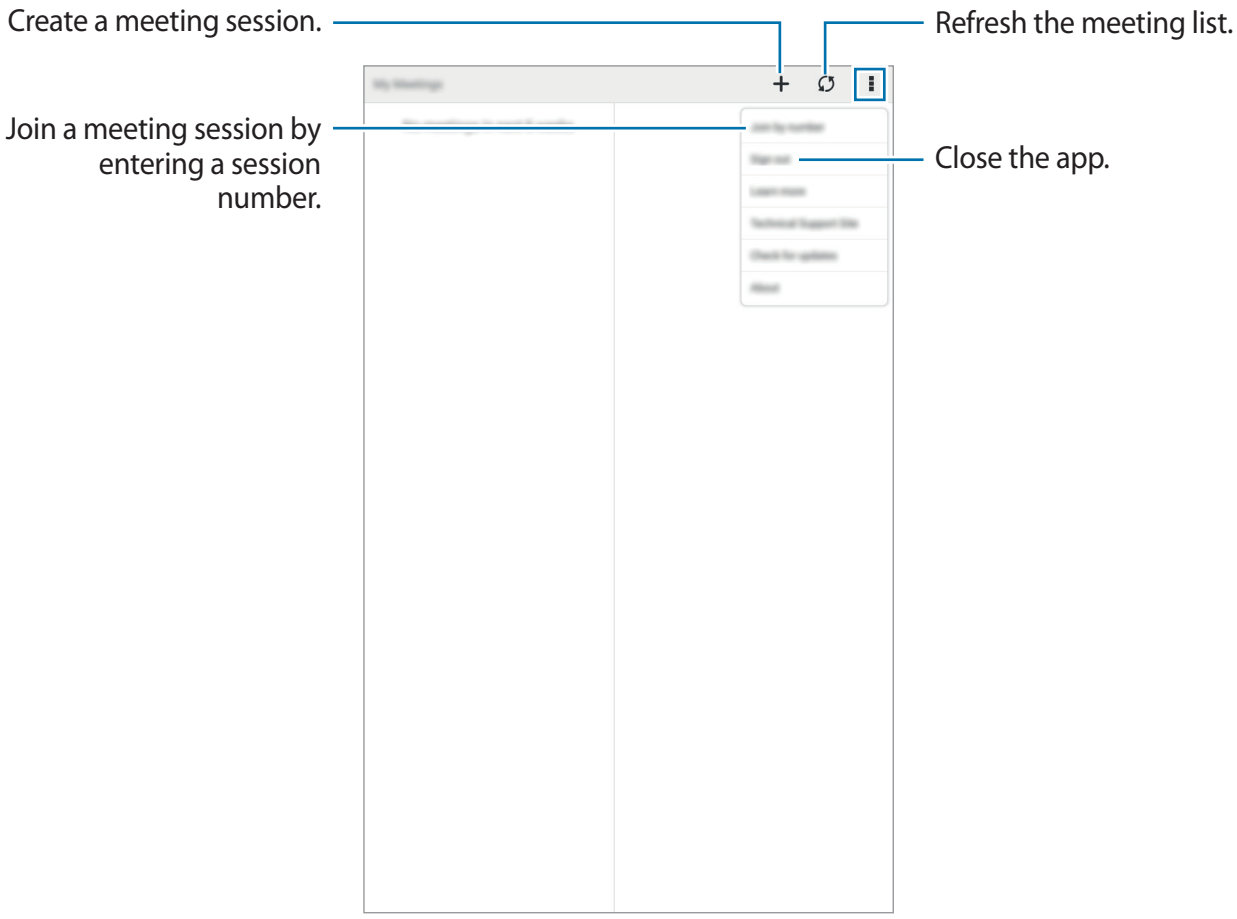
Some features are not available when the trial period expires. Switch to a paid account to use all WebEx features. Refer to the WebEx website for more information.

Creating a meeting session

1 Tap **WebEx** on the Apps screen.

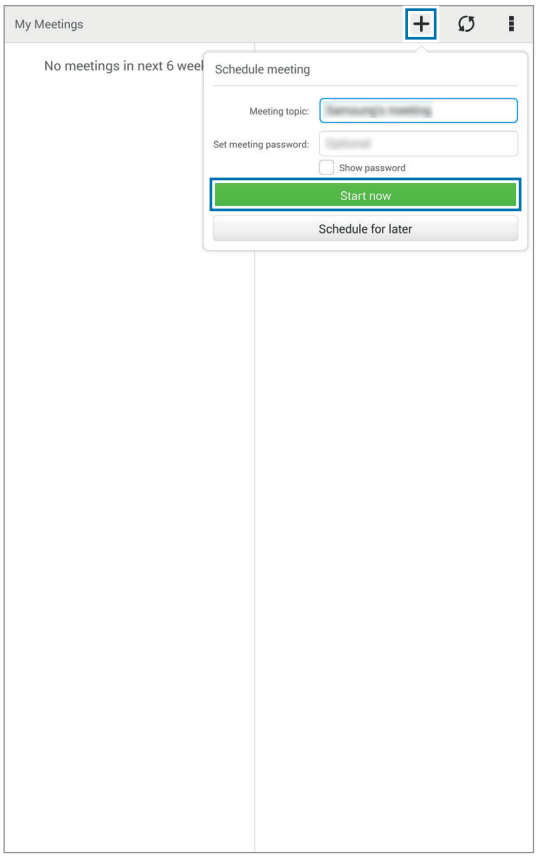
2 Sign in to your WebEx account.

3 The WebEx screen appears on the device.



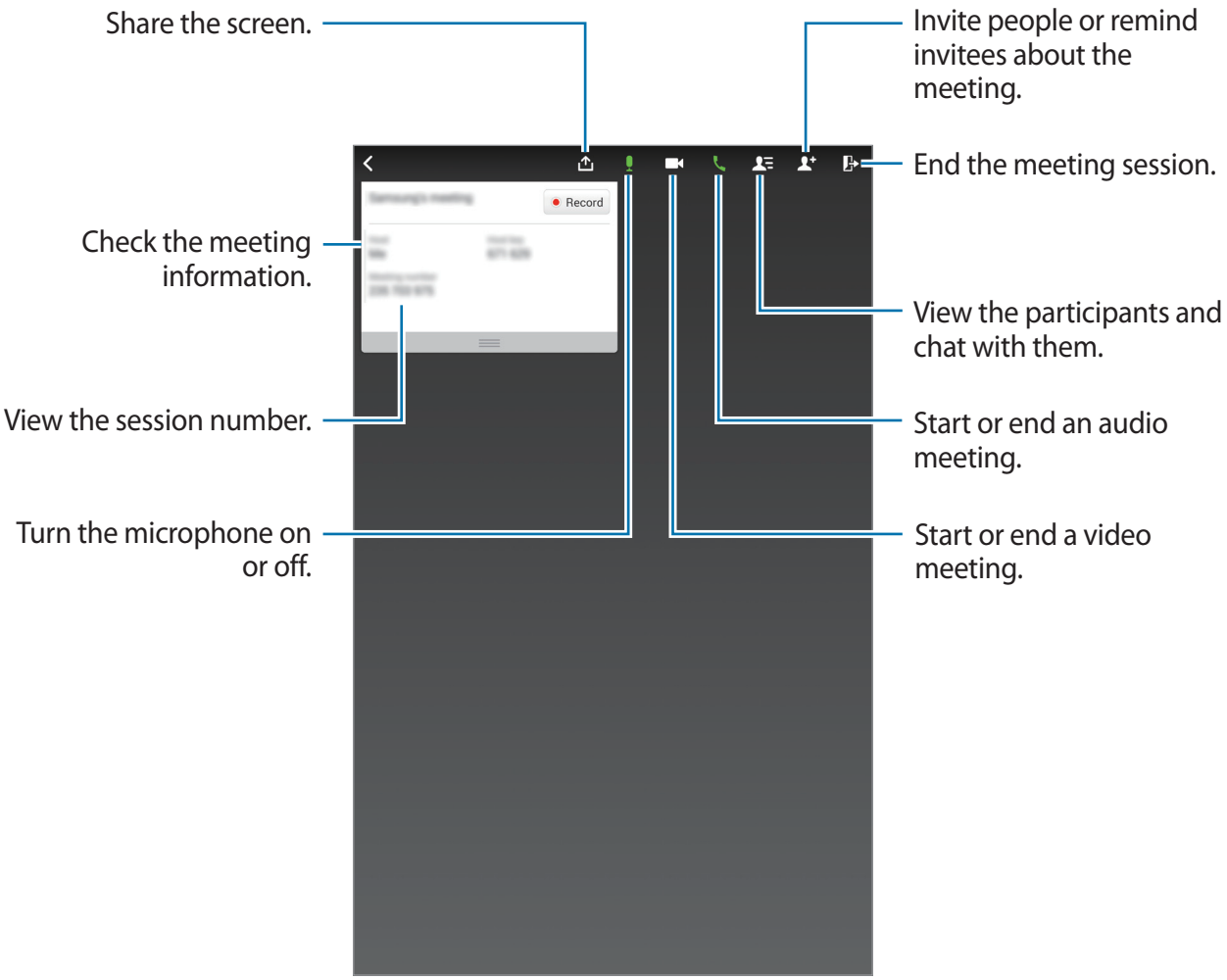
4 Tap + to create a meeting session.

5 Enter a topic for the meeting, set a password, and then tap **Start now**.



6 Tap → **Connect using Internet**.

7 The microphone will be turned on and appears at the top of the screen. You can have an audio meeting with others.



Inviting people to a meeting

Invite others to a meeting by sending an invitation email. You can also share a session number or the session's phone number with others to invite them to a meeting.

Inviting people by email

1 Tap → **Invite by email**.

2 Enter an email address and tap **Send invitation**.

Inviting people by sending a session phone number

You can invite others to a meeting by sharing the session phone number. A session phone number is created when you create a meeting session. It is provided in the invitation email along with other meeting information.

This feature may not be available depending on the region or service provider.

Joining a meeting session

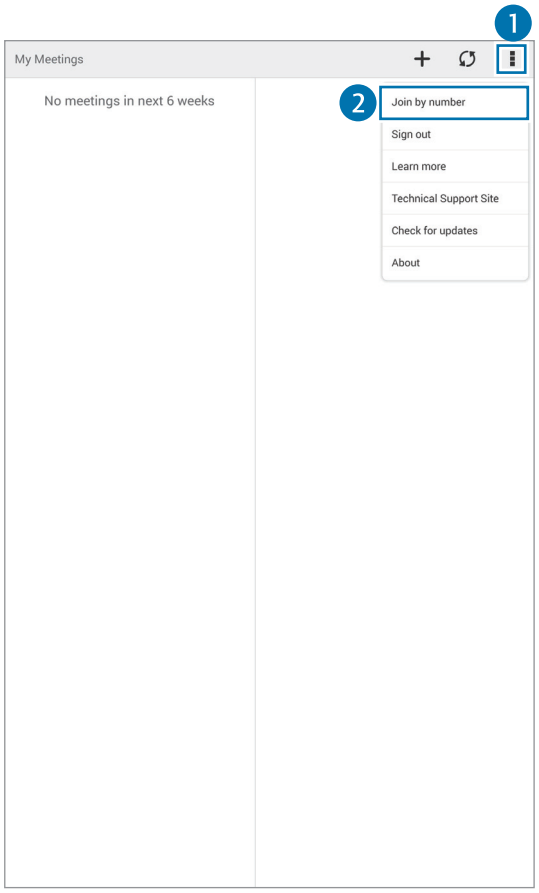
To join a meeting, use one of the following methods.

Joining a meeting by session number

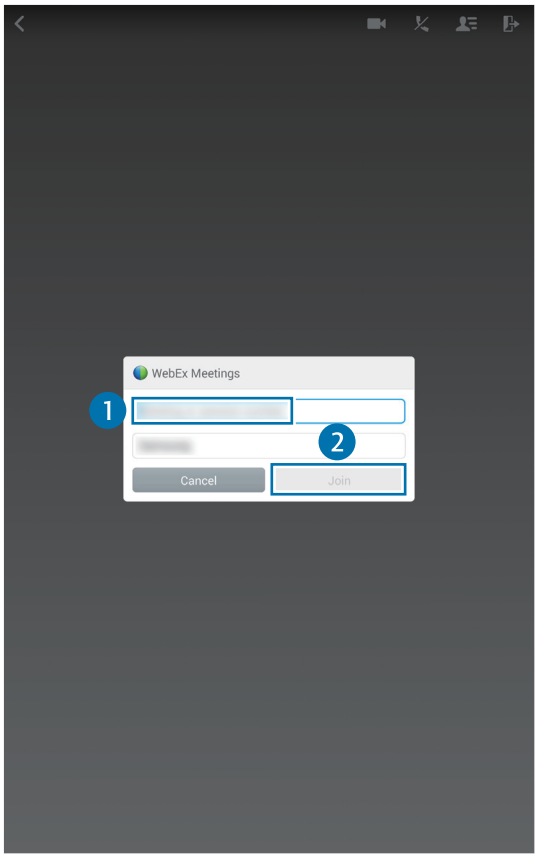
1 Tap **WebEx** on the Apps screen.

2 Sign in to your WebEx account.

3 Tap ⋮ → **Join by number**.



4 Enter a session number to join and tap **Join**.



A session number is created when a host creates a meeting session. If you do not know the number, contact the host.

5 Tap → **Connect using Internet**.

6 The microphone will be turned on and appears at the top of the screen. You can have an audio meeting with others.

Joining a meeting by selecting one in My Meetings

1 Tap **WebEx** on the Apps screen.

2 Sign in to your WebEx account.

3 Select a meeting in **My Meetings** and tap **Join**.



4 Tap → **Connect using Internet**.

5 The microphone will be turned on and appears at the top of the screen. You can join the audio meeting.

Joining a meeting from an invitation email

When someone invites you to a meeting, you will receive an invitation email.

1 Open the invitation email and tap the link in the email.

2 WebEx launches and the sign in screen appears.

3 Sign in to your WebEx account.

If you are already signed in to your account, a meeting screen will appear on the screen.

4 Tap → **Connect using Internet**.

5 The microphone will be turned on and appears at the top of the screen. You can have an audio meeting with others.

Joining a meeting by calling a session phone number

You can join a meeting by calling the session's phone number on a smartphone. Call the session phone number provided in the invitation email.

This feature may not be available depending on the region or service provider.

Running a meeting

Running a video meeting

1 Tap → **Start my video**.

2 Your image is displayed at the bottom left of the screen.

To stop the video meeting, tap → **Stop my video**.

Running an audio meeting

1 Tap → **Connect using Internet**.

2 The microphone will be turned on and appears at the top of the screen.

To mute your sound, tap . The icon changes to .

To stop the audio meeting, tap → **Leave audio conference**.

Chatting with participants

1 Tap to view the participants list.

2 Select an account name and tap **Chat**.

3 Chatting window appears on the screen.

To chat with all participants, tap **Chat with everyone**.

Sharing the screen

Share the current screen on your device with participants. Only the person designated as the presenter can share one's screen. The person who creates a meeting is designated as the presenter at the beginning of a meeting.

1 Tap ⬆ at the top of the screen if you are the presenter.

2 If you are using this feature for the first time, follow the on-screen instructions.

3 Tap **Share screen** in the pop-up window.

4 When the screen sharing feature is activated, ◕ will appear at the top right of the screen.

The content on the screen of the presenter's device will be displayed on the screens of the participants' devices.

Stopping the screen sharing feature

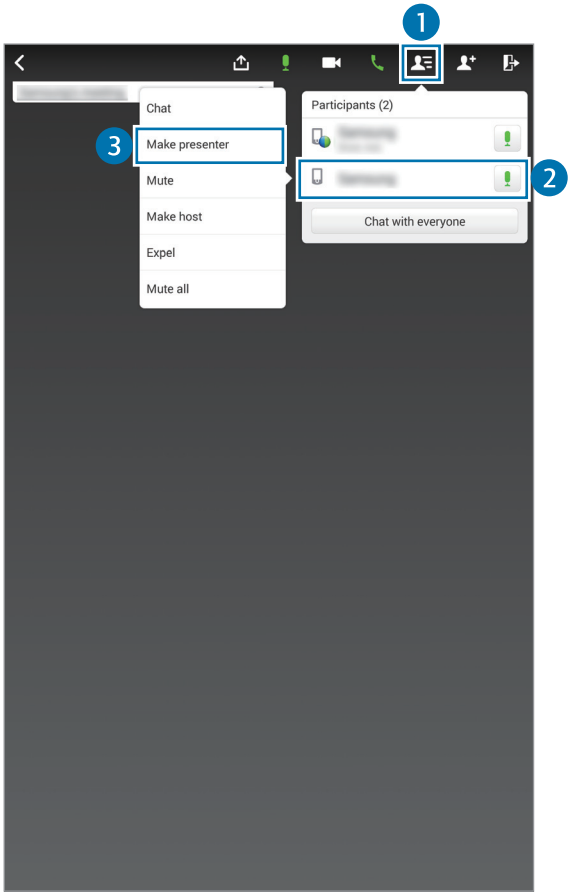
Tap ◕ → **Stop sharing**. The device stops sharing the screen and displays the meeting screen.

Changing the presenter

The meeting host and the current presenter can change the presenter.

1 Tap and select a participant to designate as the presenter.

2 Tap **Make presenter**.



3 will appear next to the presenter's account name.

Closing or exiting the meeting

Tap → **End meeting** or **Leave meeting**.

When the network connection fails during a meeting

If the meeting is still running, reconnect to the meeting.

If the meeting has ended, restart the meeting.

Businessweek+

Use this app to get the latest news about finance, business, market data, and more.

Tap **Businessweek+** on the Apps screen.

When opening this app for the first time, follow the on-screen instructions.

This app may not be available depending on the region or service provider.

Downloading an article

1 Flick through issues by date and preview the cover images.

On the Businessweek+ main screen, you can use one of the following options:

- : Change the view mode.
- : Access the downloaded issues list.
- : Access the saved articles by category.
- : View the detailed information about the app or change the settings.

2 Tap **Download**. An image appears and shows the download status.

Flick through covers to download more articles.

Opening and viewing articles

When the download has completed, tap the cover of the issue and flick through pages.

While viewing an article, you can use one of the following options:

- : Access the downloaded issues list.
- : Play the available video or audio clip.
- : Access the saved articles by category.
- : View and search for the index of various companies.
- : View headlines or articles by category.
- **Related**: View the related financial information in detail.
- : Save the article to the clippings list.
- : Change the font size.
- : Send the current page to others.

The available options may vary depending on the article you are viewing.

Dropbox

Use this app to save and share files with others via the Dropbox cloud storage. When you save files to Dropbox, your device automatically syncs with the web server and any other devices that have Dropbox installed.

This app may not be available depending on the region or service provider.

Use the following functions:

- : Upload or open files. Tap → **Upload here** to upload files.
- : View the uploaded photos or videos. Tap to share or delete files, or create albums.
- : Open files in the favourites list.
- : View notifications.

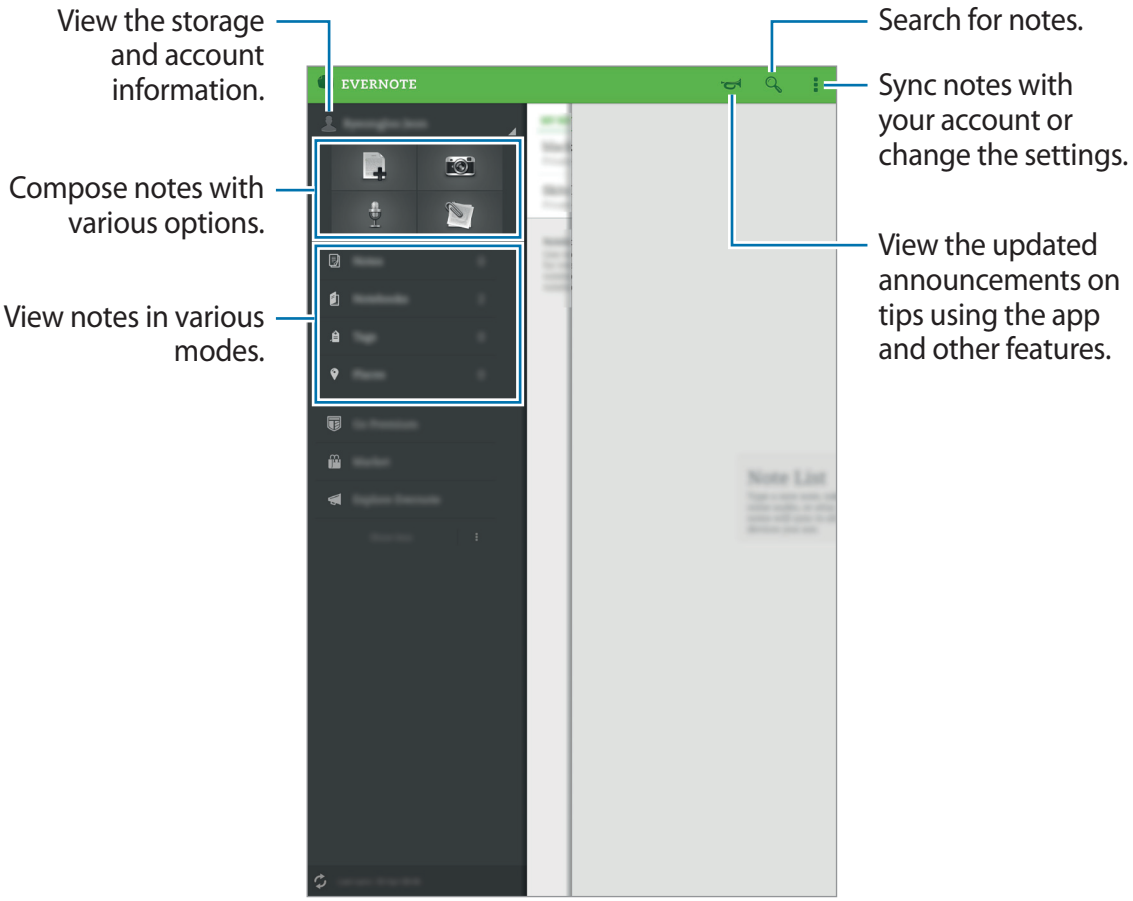
Evernote

Use this app to create, sync, and share multimedia notes. You can add tags to the notes, or sort the notes into a notebook so that you can efficiently manage your ideas.

Tap **Evernote** on the Apps screen.

Sign in to your Evernote account. If you do not have one, create an Evernote account. Follow the on-screen instructions to complete the setup.

This app may not be available depending on the region or service provider.



Composing notes

You can create a note using images, voice recordings, and other attachments. Select an option for composing a note.

While composing a note, use the following options:

- : Set a reminder to the note.
- : Attach files or use additional options.
- : Take a photo and attach it to the note.
- → **Save**: Save the note.
- → **Notebook**: Select a save location.
- → **Tags**: Add tags to the note.
- → **Set location**: Add location to the note.
- → **Settings**: Access additional options.

Deleting notes

Tap and hold a note, and then tap **Delete**.

Flipboard

Use this app to view live social network updates and news in a personalised magazine format.

Tap **Flipboard** on the Apps screen.

This app may not be available depending on the region or service provider.

When you launch this app for the first time or restart it after performing a data reset, follow the on-screen instructions to finish the setup.

On the Flipboard main screen, select from various news articles and subscriptions.

Editing subscriptions

On the Flipboard main screen, tap → **My Flipboard** to view your subscriptions.

To delete subscriptions or to change their location, tap and hold an item. Then, drag the item to the rubbish bin or to a new location.

To add more subscriptions, tap , select a subscription under **DISCOVER MORE**, and then tap .

Creating personalised magazines

Save various content by creating your own magazine to read later or to share with others.

While you are reading content, tap to create a magazine. You can create a new magazine or save the selected content to an existing magazine.

To view your magazines, tap → **My Flipboard**.

To view help information, tap → **My Flipboard** → → **Help**. You can visit the Flipboard website for more information.

Hancom Office Viewer

About Hancom Office Viewer

Use this app to view documents in various formats, including spreadsheets and presentations.

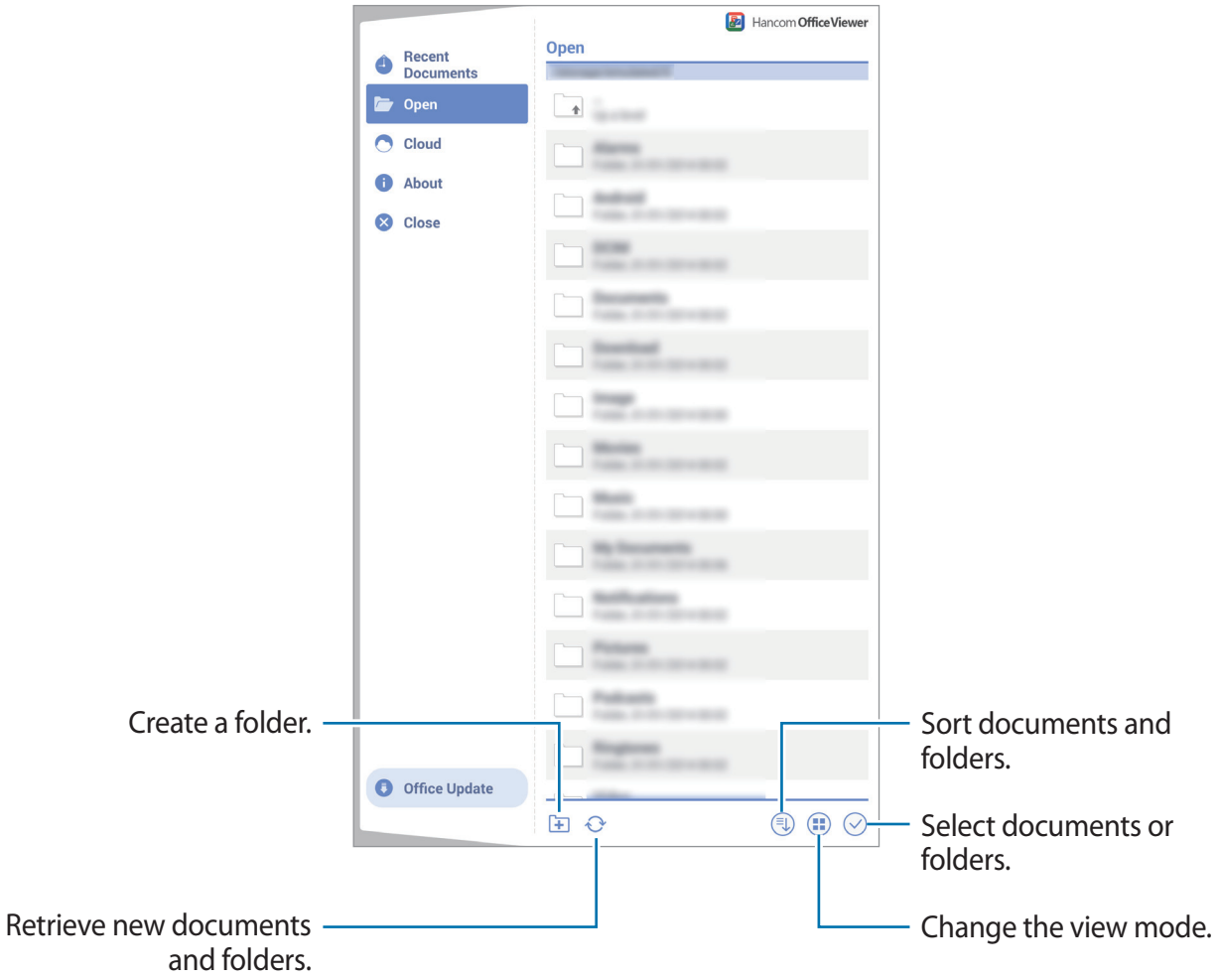
Tap **Hancom Office Viewer** on the Apps screen.

This app may not be available depending on the region or service provider.

Searching documents

Tap **Hancom Office Viewer** on the Apps screen.

Tap **Open** to browse a document.



To search for recently-used documents, tap **Recent Documents**.

Reading documents

Tap **Hancom Office Viewer** on the Apps screen.

Tap a document in **Recent Documents** or in a folder.

Tap ⋮ or ⋮, and then use one of the following functions:

Word processor

- **Find**: Search for text.
- **Zoom**: Change the view size.
- **Document Info**: View document details such as title, date, and author.
- **Print**: Print the document by connecting the device to a printer. Refer to Mobile printing for more information.
- **Send**: Send the document to others or share it.
- **Edit**: Edit the document. To use this feature, you need to download and install the required app.
- **Help**: View information about Hancom Office Viewer.

Presentation

- **Find**: Search for text.
- **Zoom**: Change the view size.
- **Document Info**: View document details such as title, date, and author.
- **Slide Show**: Start a slideshow from the first page.
- **From Current Slide**: Start a slideshow from the current page.
- **Show Presenter View**: Display presentation tools on the device when it is connected to an external monitor.

- **Print**: Print the document by connecting the device to a printer. Refer to Mobile printing for more information.
- **Send**: Send the document to others or share it.
- **Edit**: Edit the document. To use this feature, you need to download and install the required app.
- **Help**: View information about Hancom Office Viewer.

Spreadsheet

- **Find**: Search for text.
- **Zoom**: Change the view size.
- **Document Info**: View document details such as title, date, and author.
- **Sort**: Sort cells by specific criteria.
- **Show Formulas**: View the formulas inside cells instead of their calculated results.
- **Freeze Panes**: Keep the selected row in place.
- **Gridlines**: Hide or show gridlines.
- **Show All Comments**: Hide or show memos on the document.
- **Print Area**: Select an area to print.
- **Print**: Print the document by connecting the device to a printer. Refer to Mobile printing for more information.
- **Send**: Send the document to others or share it.
- **Edit**: Edit the document. To use this feature, you need to download and install the required app.
- **Help**: View information about Hancom Office Viewer.

PDF

- **Search**: Search for text.
- **Send**: Send the document to others or share it.
- **Properties**: View document details such as title, date, and author.
- **Zoom**: Change the view size.
- **Hide comments**: Hide or show comments on the document.
- **Vertical page scrolling** / **Continuous view** / **Horizontal page scrolling**: Change the view mode.
- **Reading view**: View the document contents only, without margins.
- **Go to page**: Move to a specified page.
- **Bookmarks**: View bookmarks on the document.
- **Print**: Print the document by connecting the device to a printer. Refer to Mobile printing for more information.

Managing documents

Tap **Hancom Office Viewer** on the Apps screen.

While browsing a document, tap ⊘, select documents or folders, and then use one of the following options.

- : Rename a document or a folder.
- : Copy documents or folders to another folder.
- : Move documents or folders to another folder.
- : Delete the documents or folders.
- : Send documents to others or share them.

NYTimes

Use this app to browse and navigate articles and more.

This app may not be available depending on the region or service provider.

1 Tap **NYTimes** on the Apps screen.

2 Follow the on-screen instructions to complete the setup.

When the NYTimes main screen appears, use one of the following options:

- : Refresh the article list.
- : Search for articles.
- : Access additional options or change the settings.

3 Tap an article to read.

While viewing an article, you can use one of the following options:

- : View other users' comments on the article.
- : Send the current page to others.
- : Save the article to your list.
- : Add your own annotations to the article.
- : Access additional options or change the settings.

Google apps

Google provides entertainment, social network, and business apps. You may require a Google account to access some apps. Refer to Setting up accounts for more information.

To view more app information, open the app's main screen, tap ⋮ → **Help**.

Some apps may not be available or may be labelled differently depending on the region or service provider.

Chrome

Search for information and browse webpages.

Google Mail

Send or receive emails via the Google Mail service.

Google+

Share your news and follow updates that your family, friends, and others share. You can also back up your photos and videos, and more.

Maps

Find your location on the map, search for locations, and view location information for various places.

Play Music

Discover, listen to, and share music on your device.

Play Movies & TV

Watch videos stored on your device and download various content to watch from the **Play Store**.

Play Books

Download various books from **Play Store** and read them.

Play Newsstand

Read news and magazines that interest you in one convenient location.

Play Games

Download games from **Play Store** and play them with others.

Drive

Store your content on the cloud, access it from anywhere, and share it with others.

YouTube

Watch or create videos and share them with others.

Photos

Manage photos, albums, and videos that you have saved on the device and uploaded to **Google+**.

Hangouts

Chat with your friends individually or in groups and use images, emoticons, and video calls while you are chatting.

Google

Search quickly for items on the Internet or your device.

Voice Search

Search quickly for items by saying a keyword or phrase.

Google Settings

Configure settings for some features provided by Google.

Connecting with other devices

Bluetooth

About Bluetooth

Bluetooth creates a direct wireless connection between two devices over short distances. Use Bluetooth to exchange data or media files with other devices.

- Samsung is not responsible for the loss, interception, or misuse of data sent or received via Bluetooth.
- Always ensure that you share and receive data with devices that are trusted and properly secured. If there are obstacles between the devices, the operating distance may be reduced.
- Some devices, especially those that are not tested or approved by the Bluetooth SIG, may be incompatible with your device.
- Do not use the Bluetooth feature for illegal purposes (for example, pirating copies of files or illegally tapping communications for commercial purposes).

  Samsung is not responsible for the repercussion of illegal use of the Bluetooth feature.

Pairing with other Bluetooth devices

1 On the Apps screen, tap **Settings** → **Connections** → **Bluetooth**, tap the **Bluetooth** switch to activate it, and then tap **Scan**.

The detected devices are listed.

To set the device as visible to other devices, tap the device name.

2 Select a device to pair with.

If your device has paired with the device before, tap the device name without confirming the auto-generated passkey.

If the device you want to pair with is not in the list, request that the device turns on its visibility option.

3 Accept the Bluetooth authorisation request on both devices to confirm.

Sending and receiving data

Many apps support data transfer via Bluetooth. You can share data, such as contacts or media files, with other Bluetooth devices. The following actions are an example of sending an image to another device.

Sending an image

1 On the Apps screen, tap **Gallery**.

2 Select an image.

3 Tap → **Bluetooth**, and then select a device to transfer the image to.

If the device you want to pair with is not in the list, request that the device turns on its visibility option. Or, set your device as visible to other devices.

4 Accept the Bluetooth authorisation request on the other device.

Receiving an image

When another device sends you an image, accept the Bluetooth authorisation request. The received image is saved in the **Gallery** → ☰ → **Album** → **Download** folder.

Unpairing Bluetooth devices

1 On the Apps screen, tap **Settings** → **Connections** → **Bluetooth**.

The device displays the paired devices on the list.

2 Tap ⚙ next to the device's name to unpair.

3 Tap **Unpair**.

Wi-Fi Direct

About Wi-Fi Direct

Wi-Fi Direct connects devices directly via a Wi-Fi network without requiring an access point.

Connecting to other devices

1 On the Apps screen, tap **Settings** → **Connections** → **Wi-Fi**, and then tap the **Wi-Fi** switch to activate it.

2 Tap **Wi-Fi Direct**.

The detected devices are listed.

3 Select a device to connect to.

To connect to multiple devices, tap **Multi-connect**.

To change the device name, tap ⋮ → **Rename device**.

4 Accept the Wi-Fi Direct authorisation request on the other device to confirm.

Sending and receiving data

You can share data, such as contacts or media files, with other devices. The following actions are an example of sending an image to another device.

Sending an image

1 On the Apps screen, tap **Gallery**.

2 Select an image.

3 Tap → **Wi-Fi Direct**, and then select a device to transfer the image to.

4 Accept the Wi-Fi Direct authorisation request on the other device.

Receiving an image

When another device sends you an image, accept the Wi-Fi Direct authorisation request. The received image is saved in the **Gallery** → ☰ → **Album** → **Download** folder.

Ending the device connection

1 On the Apps screen, tap **Settings** → **Connections** → **Wi-Fi**.

2 Tap **Wi-Fi Direct**.

The device displays the connected devices on the list.

3 Tap **End connection** → **OK** to disconnect the devices.

Quick Connect

About Quick Connect

Use this feature to easily search and connect to nearby devices. You can use the device as a remote control by connecting it to a TV.

- Connection methods may vary depending on the type of connected devices or the shared content.
- Device name may vary depending on the Bluetooth devices to pair with. For example, the device name can be shown as BT MAC.

Before using this feature

- When connecting to a device that supports the Quick Connect feature, turn on the device's screen to make it detectable.
- When connecting to a device that does not support the Quick Connect feature, ensure that Wi-Fi Direct or the Bluetooth feature is activated.

Connecting to other devices

1 Open the notifications panel and tap **Quick Connect**.

When the panel opens, the Bluetooth feature is activated automatically and the device searches for nearby devices.

2 Select a device to connect to.

The next steps may vary depending on the connected device. Follow the on-screen instructions to complete the connection between the devices.

To allow nearby devices to search for your device and connect to it, tap ⋮ → **Always ready to connect**, and then tap the **Always ready to connect** switch to activate it.

Re-searching for devices

If the desired device does not appear in the list, search for the device.

Tap ↻ and select the device from the list of detected devices.

Disconnecting devices

To deactivate the Quick Connect feature, tap ⌄ at the top of the screen. Alternatively, tap ↩.

Sharing content

Share content with the connected devices.

1 Open the notifications panel and tap **Quick Connect**.

2 Select a device from the list of detected devices.

3 Select a media category.

4 Select the content to share and tap **Done**.

Your device sends the content to the connected device.

Connecting to a TV

Connect the device to a TV and control the TV by using the device as a remote control.

1 Open the notifications panel and tap **Quick Connect**.

Ensure that the TV is turned on.

2 Select a TV from the list of detected devices.

When the device is connected to the TV, a remote control layout appears on the screen.

When you connect the device to a TV for the first time, tap **Set up Remote control**. Then, follow the on-screen instructions to complete connecting the devices.

3 Control the connected TV using the remote control.

SideSync 3.0

About SideSync 3.0

Use this app to control a smartphone's screen with a virtual smartphone screen on your tablet.

- On your tablet, view messages or use the smartphone's chat room.
- On your tablet, watch a video playing on the smartphone on a larger display.
- Easily transfer files between your tablet and smartphone by dragging and dropping the files.

Before using this app

- Your tablet and smartphone must support Wi-Fi Direct. Otherwise, both devices must be connected to the same access point.
- SideSync 3.0 must be installed on both your tablet and smartphone.

  If it is not installed on any device, download and install it from **Samsung Apps** or **Play Store**.
- SideSync 3.0 operates only on devices with Android version 4.4 or higher.

Connecting your tablet and a smartphone

1 On your tablet, tap **SideSync 3.0** on the Apps screen.

2 Launch **SideSync 3.0** on a smartphone.

3 The tablet searches for available smartphones automatically.

Select one of the detected smartphones.



4 Tap **OK** on the smartphone screen.

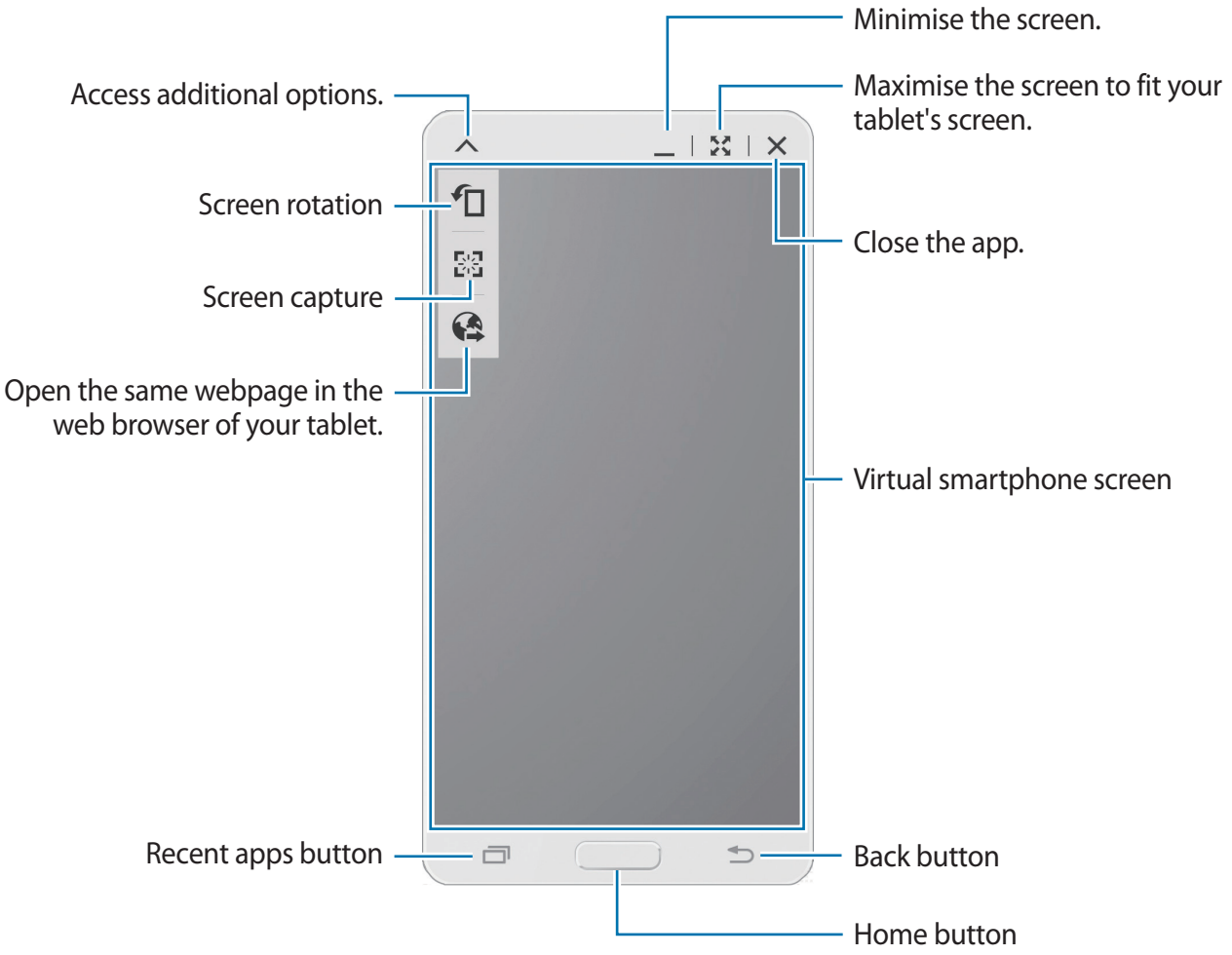
5 The smartphone's virtual screen is displayed on your tablet and the smartphone's screen is turned off.



Using the virtual smartphone screen

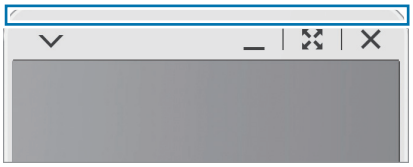
Browse the screen and use apps in the virtual smartphone screen. You can send or receive messages, or chat with others.

- Some features, such as **Camera** and **Screen Mirroring**, may not work in the virtual smartphone screen.
- The smartphone's virtual screen may differ depending on the smartphone.



Moving the virtual smartphone screen

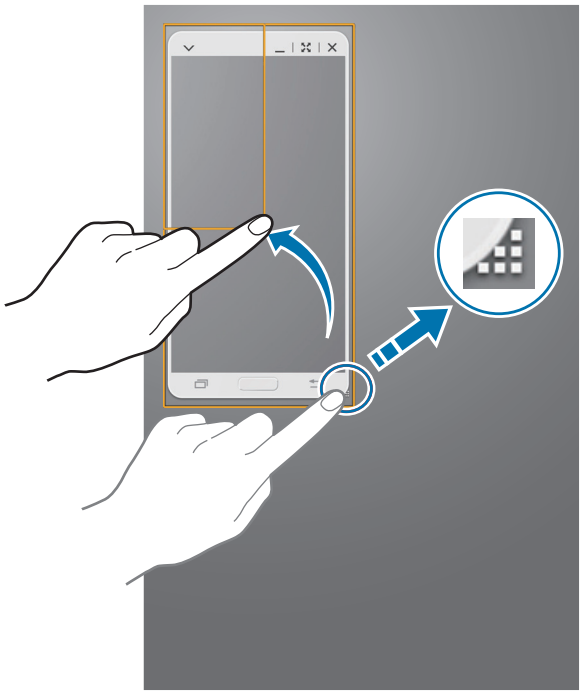
Tap and drag the top edge of the virtual smartphone screen to move it to another location.



Adjusting the size of the virtual smartphone screen

1 Tap and hold at the bottom right of the virtual smartphone screen.

2 When the frame appears, drag the frame to adjust the size.



Entering text

When you enter text in the virtual smartphone screen, the tablet's keyboard appears. Enter text using the keyboard.

Switching between the smartphone screen and the virtual smartphone screen

It is not possible to use the smartphone screen and the virtual smartphone screen at the same time. When you are using the virtual smartphone screen on the tablet, the smartphone screen turns off.

Using the smartphone screen

Press the Home button on the smartphone to turn on the smartphone screen and turn off the virtual smartphone screen on the tablet.

Using the virtual smartphone screen

Tap **Switch to tablet** on the tablet's screen to turn on the virtual smartphone screen and turn off the smartphone screen.

Playing music or videos on the tablet

Play music or videos stored in the smartphone via the screen and speaker of the tablet.

1 Open a music or video file in the virtual smartphone screen on the tablet.

2 The selected file is played using the tablet's screen and speaker.

Adjust the volume on the virtual smartphone screen or the tablet during playback.

Copying files between devices

Copying files from the smartphone to the tablet

1 Tap and hold a file on the virtual smartphone screen.

2 Select the files to copy, tap and hold any selected file, and then drag it to the tablet's screen.

3 **My Files** is launched on the tablet's screen. Select a folder to save the file in and tap **Done**.

Copying files from the tablet to the smartphone

1 Tap and hold a file on the tablet's screen.

2 Select the files to copy, tap and hold any selected file, and then drag it to the virtual smartphone screen.

3 **My Files** is launched on the virtual smartphone screen. Select a folder to save the file in and tap **Done**.

Using call functions with the tablet

You can use your smartphone's call functions with the speaker and the microphone of the tablet. Receive an incoming call or make a call using virtual smartphone screen.

For more information about the call functions, refer to the smartphone's user manual.

Remote PC

Starting Remote PC

Use this app to view and control your computer's screen on your device by connecting your device and computer via a Wi-Fi or local area network. You can also easily view and transfer files between your device and computer.

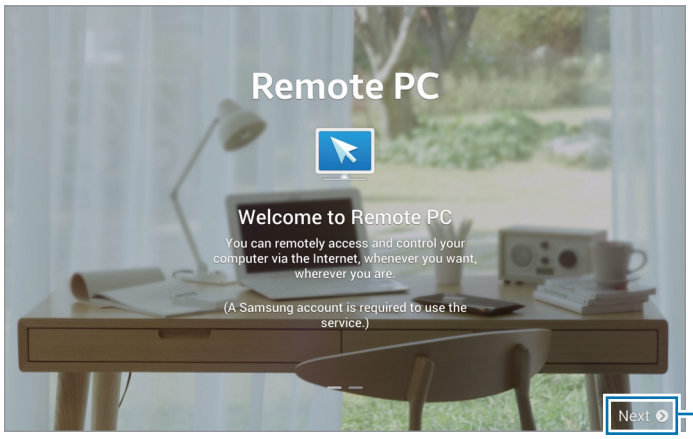
Before using this app

- Ensure that you have a registered Samsung account.
- Ensure that the computer is turned on.
- Ensure that the Agent is installed on your computer.
- To use this feature, perform the following in numerical order:
  1. Register the device with your Samsung account.
  2. Register the computer with your Samsung account.
  3. Remotely connect the device and the computer.

Registering the device

1 On your device, tap **Remote PC** on the Apps screen.

2 Tap **Next** on the greeting page.



3 Tap **Sign in**, enter your Samsung account and password, and then tap **Sign in** again.

If a Samsung account is not registered, follow the on-screen instructions to create a Samsung account.

Registering a computer

1 On your computer, launch the web browser and visit remotepc.rview.com.

2 Sign in to your Samsung account.

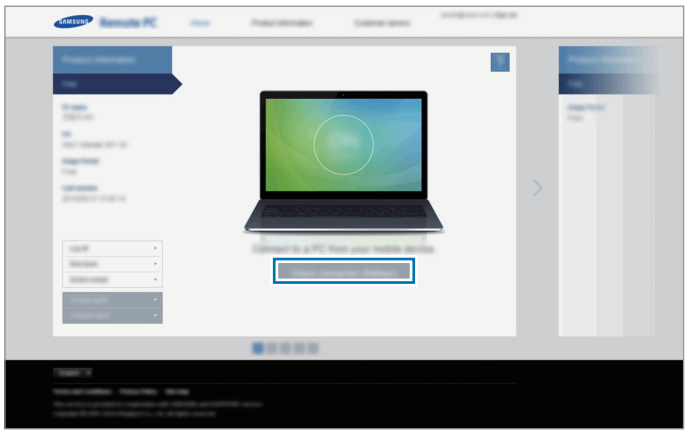
You must sign in to the same Samsung account that you use on your device.

3 Install the Agent if it is not installed on your computer.

Follow the on-screen instructions to enter a display name for the computer, proxy settings, and password. For more information about proxy server settings, contact your network administrator.

will appear on the task bar when the installation is completed.

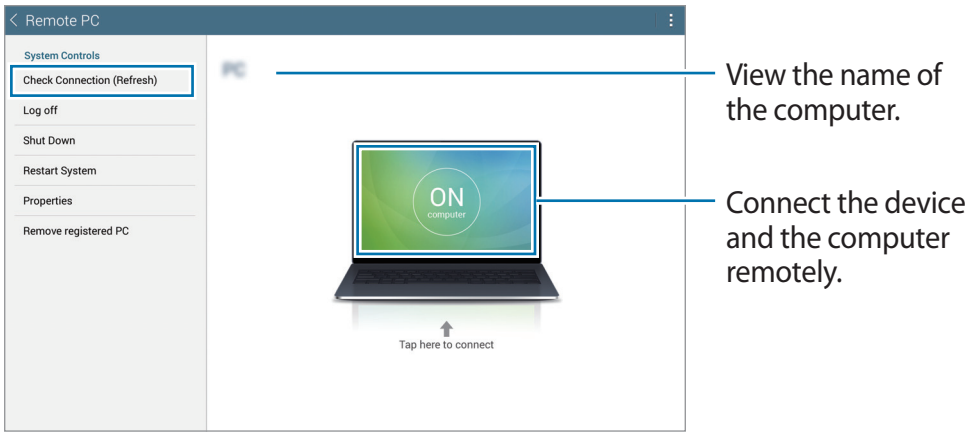
4 Tap **Check Connection (Refresh)**.



Connecting the device and a computer remotely

1 Tap **Remote PC** on the Apps screen.

2 Tap **Check Connection (Refresh)**.



3 Tap **ON computer**.

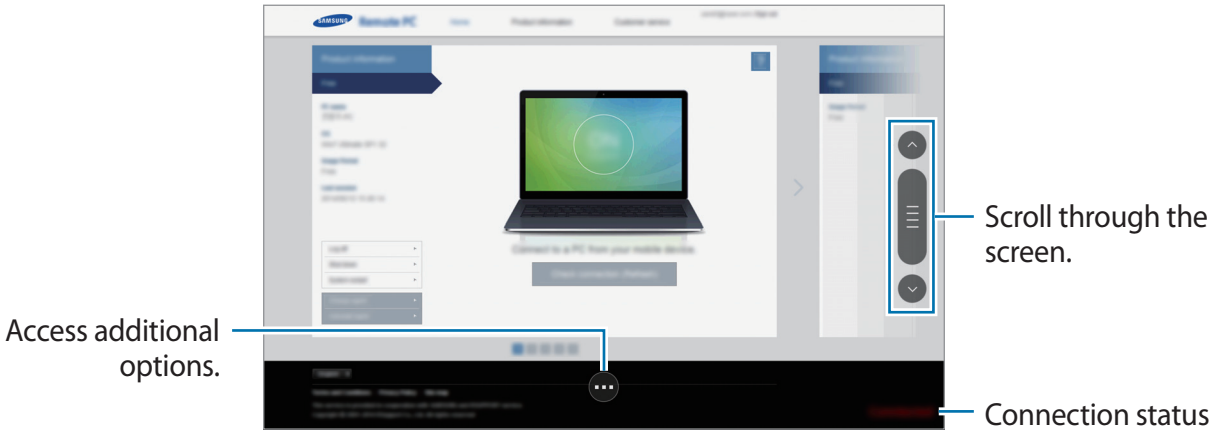
4 Enter the password for the connection and tap **OK**.

Tap **Forgotten your password?** if you do not remember the password.

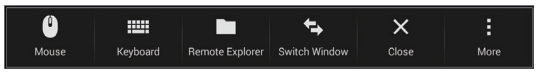
5 The connection is made and you can control the computer remotely on the device.

Controlling the computer on the device

After connecting the devices, you can view and control your computer's screen on the device. You can also open or edit files in the computer and transfer them to the device.



Tap the screen and tap ··· at the bottom of the screen to use one of the following:

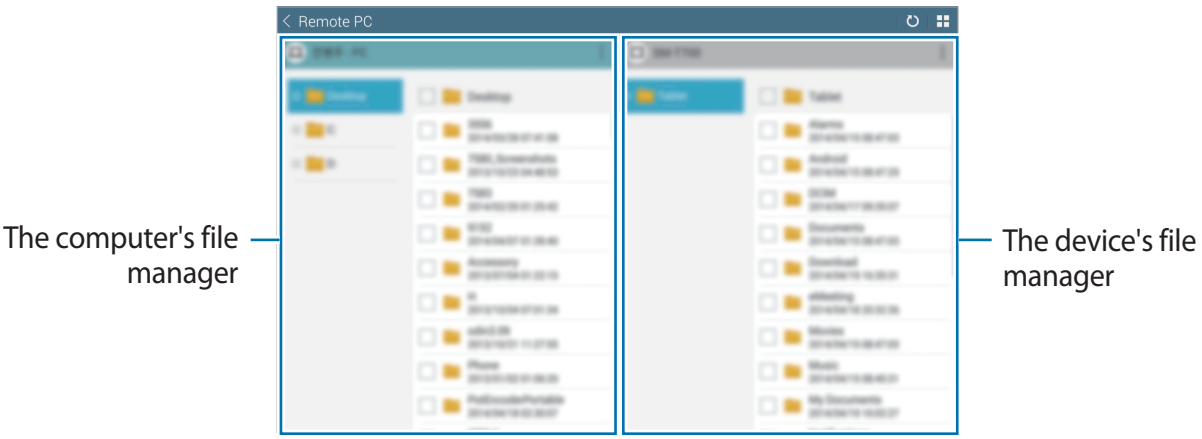


- **Mouse**: Display the mouse pointer on the device's screen.
- **Keyboard**: Open the keyboard to enter text in the selected text field.
- **Remote Explorer**: Open the file manager to search for files and transfer files between the connected devices.
- **Switch Window**: Switch between two monitors when the computer is connected to dual monitors.
- **Close**: Close the currently-running app.
- **More**:
  - **Screen lock**: Lock the device's screen to disable the zoom and scroll functions.
  - **Settings**: Change the connection settings.
  - **Ctrl + Alt + Delete**: Open the task manager on your computer.
  - **Disconnect**: Close the connection between the device and the computer.

Transferring files between your device and the computer

1 Tap ⋯ → **Remote Explorer**.

2 Tap and hold a file on the computer's file manager panel. Then, drag it to the device's file manager panel. You can also move a file vice versa.



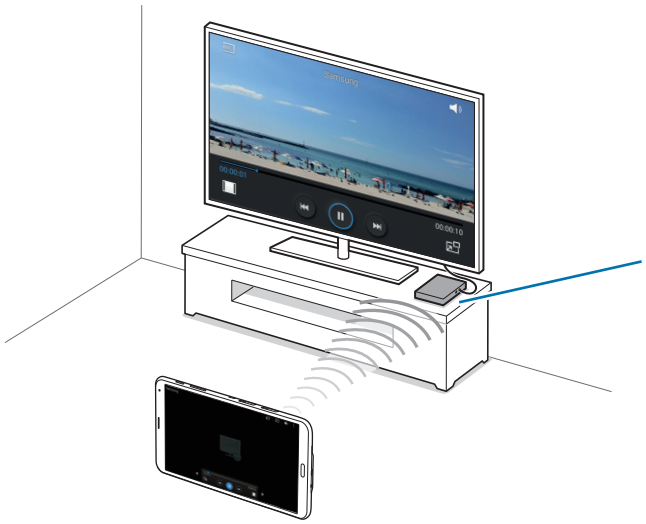
Disconnecting the device and a computer

On your device, tap ↩ → **OK**. Alternatively, on your computer, right click on the task bar and exit the Agent programme.

Screen Mirroring

About Screen Mirroring

Use this feature to connect your device to a large screen with an AllShare Cast dongle or HomeSync and then share your contents. You can also use this feature with other devices that support the Wi-Fi Miracast feature.



- This feature may not be available depending on the region or service provider.
- Miracast-enabled devices that do not support High-bandwidth Digital Content Protection (HDCP 2.X) may not be compatible with this feature.
- Some files may be buffered during playback, depending on the network connection.
- To save energy, deactivate this feature when not in use.
- If you specify a Wi-Fi frequency, AllShare Cast dongles or HomeSync may not be detected or connected.
- If you play videos or games on a TV, select an appropriate TV mode to get the best experience.

Viewing content on a TV

Before you connect a TV to your device, connect the TV and the screen mirroring-enabled device. To set up the connection, refer to the device's user manual. The following actions are an example of viewing content on a TV connected via an AllShare Cast dongle.

1 Connect the screen mirroring-enabled device to the TV using an HDMI cable.

2 On the TV, select a connection mode, such as HDMI mode, to connect an external device.

3 On the Apps screen, tap **Settings** → **Connections** → **Screen Mirroring**.

The detected devices are listed.

4 Select a device to connect to.

Your device's screen appears on the TV screen.

If you connect the device for the first time, tap and hold the dongle's name in the list and enter the PIN shown on the TV screen.

5 Open or play a file, and then control the display with the keys on your device.

Stopping viewing the content

On the Apps screen, tap **Settings** → **Connections** → **Screen Mirroring**, and then tap the **Screen Mirroring** switch to deactivate it.

Mobile printing

Connect the device to a printer via Wi-Fi or Wi-Fi Direct, and print image or documents.

Some printers may not be compatible with the device.

Connecting to a printer

On the Apps screen, tap **Settings** → **Connections** → **Printing**, select a printer type, and then tap the switch at the top right of the screen to activate it. The device searches for printers that are connected to the same Wi-Fi network as your device. Select a printer to use as the default printer.

To add printers manually, tap ⋮ → **Add printer** → +, enter details, and then tap **OK**.

To change printing settings, tap ⋮ → **Printing settings**.

Printing content

While viewing content, such as images or documents, tap ⋮ → **Print**, and then select a printer.

Device & data manager

Upgrading the device

The device can be upgraded to the latest software.

Upgrading over the air

The device can be directly upgraded to the latest software by the firmware over-the-air (FOTA) service.

On the Apps screen, tap **Settings** → **General** → **About device** → **Software update** → **Update now**.

Upgrading with Samsung Kies

Download the latest version of Samsung Kies from the Samsung website. Launch Samsung Kies and connect the device to the computer. Samsung Kies automatically recognises the device and shows available updates in a dialogue box, if any. Click the Update button in the dialogue box to start upgrading. Refer to the Samsung Kies help for more information about how to upgrade.

- Do not turn off the computer or disconnect the USB cable while the device is upgrading.
- While upgrading the device, do not connect other media devices to the computer. Doing so may interfere with the update process.

Transferring files between the device and a computer

Move audio, video, image, or other types of files from the device to the computer, or vice versa.

Do not disconnect the USB cable from the device when you are transferring files. Doing so may cause data loss or device damage.

- Do not disconnect the device from the computer when you play files saved in the device on the connected computer. After you finish playing the file, disconnect the device from the computer.
- The devices may not connect properly if they are connected via a USB hub. Directly connect the device to the computer's USB port.

Connecting as a media device

1 Connect the device to the computer using the USB cable.

2 Open the notifications panel, and then tap **Connected as a media device** → **Media device (MTP)**.

Tap **Camera (PTP)** if your computer does not support Media Transfer Protocol (MTP) or not have any appropriate driver installed.

3 Transfer files between your device and the computer.

Connecting with Samsung Kies

Samsung Kies is a computer app that manages media contents and personal information with Samsung devices. Download the latest Samsung Kies from the Samsung website.

1 Connect the device to the computer using the USB cable.

Samsung Kies launches on the computer automatically. If Samsung Kies does not launch, double-click the Samsung Kies icon on the computer.

2 Transfer files between your device and the computer.

Refer to the Samsung Kies help for more information.

Backing up and restoring data

Keep your personal information, app data, and settings safe on your device. You can back up your sensitive information to a backup account and access it later.

Using a Google account

1 Tap **Settings** on the Apps screen.

2 Tap **General** → **Backup and reset** and tick **Back up my data**.

3 Tap **Backup account** and select an account as the backup account.

To restore data, you must sign in to your Google account via the setup wizard. You can launch and open the setup wizard by performing a factory data reset on the device. If you do not sign in to your Google account via the setup wizard, you cannot restore the backup data.

Using a Samsung account

1 On the Apps screen, tap **Settings** → **General** → **Accounts** → **Add account** → **Samsung account**, and then sign in to your Samsung account.

2 Tap **Settings** on the Apps screen.

3 Tap **General** → **Cloud** → **Backup**, tick the items to back up, and then tap **Back up now** → **Back up**.

To restore data, open the Apps screen, tap **Settings** → **General** → **Cloud** → **Restore**, select the items, and then tap **Restore now**.

Performing a data reset

Delete all settings and data on the device. Before performing a factory data reset, ensure you back up all important data stored on the device. Refer to Backing up and restoring data for more information.

On the Apps screen, tap **Settings** → **General** → **Backup and reset** → **Factory data reset** → **Reset device** → **Erase everything**. The device automatically restarts.

Settings

About Settings

Use this app to configure the device, set app options, and add accounts.

Tap **Settings** on the Apps screen.

To search for settings by entering keywords, tap .

Connections

Wi-Fi

Activate the Wi-Fi feature to connect to a Wi-Fi network and access the Internet or other network devices.

On the Settings screen, tap **Connections** → **Wi-Fi**, and then tap the **Wi-Fi** switch to activate it.

The device can maintain a stable network connection by automatically selecting either the Wi-Fi or mobile network to use the strongest signal. To automatically switch between networks, tick **Smart network switch**.

To use options, tap .

- **Advanced**: Customise Wi-Fi settings.
- **WPS push button**: Connect to a secured Wi-Fi network with a WPS button.
- **WPS PIN entry**: Connect to a secured Wi-Fi network with a WPS PIN.
- **Help**: View help information for Wi-Fi.

Setting Wi-Fi sleep policy

Tap → **Advanced** → **Keep Wi-Fi on during sleep**.

When the screen is turned off, the device automatically turns off Wi-Fi connections. When this happens, the device automatically accesses mobile networks if it is set to use them. This may incur data transfer fees. To avoid additional charges, set this option to **Always**.

Setting Network notification

The device can detect open Wi-Fi networks and display an icon on the status bar to notify when available.

Tap ⋮ → **Advanced** and tick **Network notification** to activate this feature.

Wi-Fi Direct

Wi-Fi Direct connects devices directly via a Wi-Fi network without requiring an access point.

Tap **Wi-Fi Direct**.

Bluetooth

Activate the Bluetooth feature to exchange information over short distances.

On the Settings screen, tap **Connections** → **Bluetooth**, and then tap the **Bluetooth** switch to activate it.

To use more options, tap ⋮.

- **Visibility timeout**: Set duration that the device is visible.
- **Received files**: View received files via Bluetooth.
- **Rename device**: Change the device name.
- **Help**: View help information for Bluetooth.

Tethering and Mobile hotspot

Use the device as a mobile hotspot to share the device's mobile data connection with other devices. Refer to Tethering and Mobile hotspot for more information.

On the Settings screen, tap **Connections** → **Tethering and Mobile hotspot**.

- **Mobile hotspot**: Use the mobile hotspot to share the device's mobile data connection with computers or other devices through the Wi-Fi network. You can use this feature when the network connection is not available.
- **USB tethering**: Use USB tethering to share the device's mobile data connection with a computer via USB. When connected to a computer, the device is used as a wireless modem for the computer.
- **Bluetooth tethering**: Use Bluetooth tethering to share the device's mobile data connection with computers or other devices via Bluetooth.

Flight mode

This disables all wireless functions on your device. You can use only non-network services.

On the Settings screen, tap **Connections** → **Flight mode**.

Download booster

Set the device to download files via both Wi-Fi and mobile networks at the same time.

On the Settings screen, tap **Connections** → **Download booster**, and then tap the **Download booster** switch to activate it.

You may incur additional charges when downloading files via the mobile network.

- **Do not show speed info**: Set the device not to display the data transfer speed in a popup window while using download booster mode.

Data usage

Keep track of your data usage amount and customise the settings for the limitation.

On the Settings screen, tap **Connections** → **Data usage**.

- **Mobile data**: Set the device to use data connections on any mobile network.
- **Set mobile data limit**: Set a limit for mobile data usage.
- **Data usage cycle**: Set a monthly reset date to monitor data usage between periods.

To use more options, tap ⋮.

- **Data roaming**: Set the device to use data connections when you are roaming.
- **Restrict background data**: Set the device to disable sync in the background while using a mobile network.
- **Auto sync data**: Activate or deactivate auto-syncing of apps, such as calendar or email. You can select what information to sync for each account in **Settings** → **General** → **Accounts**.
- **Show Wi-Fi usage**: Set the device to show your data usage via Wi-Fi.
- **Mobile hotspots**: Select mobile hotspots to prevent apps that are running in the background from using them.

Location

Change settings for location information permissions.

On the Settings screen, tap **Connections** → **Location**, and then tap the **Location** switch to activate it.

- **Mode**: Select a method to collect your location data.
- **RECENT LOCATION REQUESTS**: View which apps request your current location information and their battery usage.
- **LOCATION SERVICES**: View the location services your device is using.
- **My places**: Set up profiles that will be used for specific locations when you use GPS, Wi-Fi, or Bluetooth features to find your current location.

More networks

Customise settings to control networks.

On the Settings screen, tap **Connections** → **More networks**.

Default messaging app

Select the default app to use for messaging.

Mobile networks

- **Mobile data**: Set the device to use data connections on any mobile network.
- **Data roaming**: Set the device to use data connections when you are roaming.
- **Access Point Names**: Set up access point names (APNs).
- **Network mode**: Select a network type.
- **Network operators**: Search for available networks and select a network for roaming.

VPN

Set up and connect to virtual private networks (VPNs).

Ethernet

The Ethernet option is available when an Ethernet adaptor is connected to the device. Use this option to activate the Ethernet feature and configure network settings.

Nearby devices

Change settings for sharing content when you connect the device to nearby devices.

On the Settings screen, tap **Connections** → **Nearby devices**, and then tap the **Nearby devices** switch to activate it.

- **DEVICE NAME**: View the media server name for your device.
- **Content to share**: Set the device to share your content with other devices.
- **Allowed devices**: View the list of devices that can access your device.
- **Denied devices**: View the list of devices that are blocked from accessing your device.
- **Download to**: Select a memory location for saving media files.
- **Download from other devices**: Set the device to accept uploads from other devices.

Printing

Configure settings for printer plug-ins installed on the device. You can search for available printers or add one manually to print files via Wi-Fi or cloud services.

On the Settings screen, tap **Connections** → **Printing**.

Screen Mirroring

Activate the screen mirroring feature and share your display with others.

On the Settings screen, tap **Connections** → **Screen Mirroring**.

Device

Sound

Change settings for various sounds on the device.

On the Settings screen, tap **Device** → **Sound**.

- **Sound mode**: Set the device to use sound mode or silent mode.
- **Volume**: Adjust the volume level for music and videos, system sounds, and notifications.
- **Vibration intensity**: Adjust the force of the vibration notification.
- **Ringtones**: Add or select a ringtone for incoming calls.
- **Vibrations**: Add or select a vibration pattern.
- **Notifications**: Select a ringtone for events, such as incoming messages and missed calls.
- **Vibrate when ringing**: Set the device to vibrate and play a ringtone for incoming calls.
- **Dialling keypad tone**: Set the device to sound when you tap the buttons on the keypad.
- **Touch sounds**: Set the device to sound when you select an app or option on the touch screen.
- **Screen lock sound**: Set the device to sound when you lock or unlock the touch screen.
- **Haptic feedback**: Set the device to vibrate when you tap keys.
- **SAMSUNG APPLICATIONS**: Change the notification settings for each app.
- **Sound when tapped**: Set the device to sound when a key is touched.
- **Vibrate when tapped**: Set the device to vibrate when a key is touched.

Display

Change the display settings.

On the Settings screen, tap **Device** → **Display**.

- **Font**:
  - **Font style**: Change the font type for display text.
  - **Font size**: Change the font size.
- **Brightness**: Set the brightness of the display.
- **Screen rotation**: Set the content to rotate automatically when the device is turned.
  - **Smart rotation**: Set the interface not to rotate according to the orientation of your face.
- **Smart stay**: Set the device to prevent the display backlight from turning off while you are looking at the display.
- **Screen timeout**: Set the length of time the device waits before turning off the display's backlight.
- **Screen mode**:
  - **Adaptive display**: Use this mode for optimising the display according to the display settings.
  - **AMOLED cinema**: Use this mode to make the display tone more vivid.
  - **AMOLED photo**: Use this mode to make the display tone look like real colours.
  - **Basic**: Use this mode for dim surroundings, such as in a dark room.
- **Reading mode**: Select which apps will use reading mode. In reading mode, the device helps protect your eyes when reading at night.
- **Auto adjust screen tone**: Set the device to save power by adjusting the brightness of the display.
- **Daydream**: Set the device to launch a screensaver when the device is charging.
- **Touch key light duration**: Set the duration that the Recent apps button and the Back button's backlight remains on.
- **Increase touch sensitivity**: Set the device to allow use of the touch screen with gloves on.

Depending on the type of material you wear while touching the device, some commands may not be recognised.

Wallpaper

Change the wallpaper settings.

On the Settings screen, tap **Device** → **Wallpaper**.

- **Home screen**: Select a background image for the Classic Home screen.
- **Lock screen**: Select a background image for the locked screen.
- **Home and lock screens**: Select a background image for the Classic Home screen and the locked screen.

Lock screen

Change the settings for the locked screen.

On the Settings screen, tap **Device** → **Lock screen**.

- **Screen lock**: Activate the screen lock feature. The following options may vary depending on the screen lock feature selected.
- **Lock screen card**: Set the device to display cards on the locked screen that show the current weather, news updates, your schedule, and more. Change the settings for the cards.
- **Clock widget options**: Configure settings for the clock widget.
  - **Dual clock**: Set the device to show the dual clock.
  - **Clock size**: Change the clock size.
  - **Show date**: Set the device to show the date with the clock.
- **Shortcuts**: Set the device to show and edit app shortcuts on the locked screen.

This feature may not be available depending on the region or service provider.

- **Owner information**: Enter your information that is shown with the clock.
- **Unlock effect**: Select an effect that you see when you unlock the screen.
- **Help text**: Set the device to show the help text on the locked screen.

Multi window

Set the device to use Multi window.

On the Settings screen, tap **Device** → **Multi window**, and then tap the **Multi window** switch to activate it.

- **Open in multi window view**: Set the device to activate the Multi window feature when you open files from **My Files** or **Video**. Also, the device activates this feature when you view attachments in messages.

Notification panel

Customise the items that appear on the notifications panel.

On the Settings screen, tap **Device** → **Notification panel**.

- **Brightness and volume**: Set the device to display the brightness and volume adjustment bars on the notifications panel.
- **Recommended apps**: Set the device to display a list of recommended apps on the notifications panel based on your actions, such as connecting a headset to the device.
- **Set quick setting buttons**: Rearrange the quick setting buttons displayed on the notifications panel.

Toolbox

Set the device to use the toolbox.

On the Settings screen, tap **Device** → **Toolbox**, and then tap the **Toolbox** switch to activate it.

View the apps list to display in the toolbox. To edit the apps list, tap .

Motions

Activate the motion recognition feature and change the settings that control motion recognition on your device.

On the Settings screen, tap **Device** → **Motions**.

- **Direct call**: Set the device to make a voice call by picking up and holding the device near your ear while viewing call, message, or contact details.
- **Smart alert**: Set the device to alert you if you have missed calls or new messages when you pick up the device.
- **Mute/Pause**:
  - **Covering screen with hand**: Set the device to mute incoming calls or alarms, or to pause media playback when you touch the screen with your palm.
  - **Smart pause**: Set the device to pause video playback when you look away from the screen.
- **Palm swipe to capture**: Set the device to capture a screenshot when you sweep your hand to the left or right across the screen.

Accessibility

Use this feature to improve accessibility to the device. Refer to About Accessibility for more information.

On the Settings screen, tap **Device** → **Accessibility**.

Blocking mode

Select which notifications will be blocked or set to allow notifications for calls from specified contacts in blocking mode.

On the Settings screen, tap **Device** → **Blocking mode**, and then tap the **Blocking mode** switch to activate it.

Users

Set up and manage user profiles for personalised settings. Refer to Multiple users for more information.

On the Settings screen, tap **Device** → **Users**.

Private mode

Set the device to prevent others from accessing your personal content by activating private mode.

On the Settings screen, tap **Device** → **Private mode**, and then tap the **Private mode** switch to activate it.

- **Unlock method**: Set or change the unlock method to activate private mode.

Finger Scanner

Register your fingerprint to the device to secure the device or sign in to your Samsung account.

On the Settings screen, tap **Device** → **Finger Scanner**.

- **Fingerprint manager**: Register or delete fingerprint information.
- **Change alternative password**: Change the alternative password to use if the device does not recognise the fingerprint.
- **Screen lock**: Activate the screen lock feature.
- **Verify Samsung account**: Set the device to verify your Samsung account with fingerprints.
- **Pay with PayPal**: Set the device to verify your PayPal account and to authorise purchases using your fingerprints.

This feature may not be available depending on the region or service provider.

General

Accounts

Add email or SNS accounts.

On the Settings screen, tap **General** → **Accounts**.

Cloud

Change settings for syncing data or files with your Samsung account or Dropbox cloud storage.

On the Settings screen, tap **General** → **Cloud**.

Backup and reset

Change the settings for managing settings and data.

On the Settings screen, tap **General** → **Backup and reset**.

- **Back up my data**: Set the device to back up settings and app data to the Google server.
- **Backup account**: Set up or edit your Google backup account.
- **Automatic restore**: Set the device to restore settings and app data when the apps are reinstalled on the device.
- **Factory data reset**: Reset settings to the factory default values and delete all data.

Language and input

Change the settings for text input. Some options may not be available depending on the selected language.

On the Settings screen, tap **General** → **Language and input**.

Language

Select a display language for all menus and apps.

Default

Select a default keyboard type for text input.

Samsung keyboard

To change the Samsung keyboard settings, tap ⚙.

The available options may vary depending on the region or service provider.

- **Select input languages**: Select languages for text input.
- **Predictive text**: Activate predictive text mode to predict words based on your input and show word suggestions. You can also customise the word prediction settings.
- **Auto replacement**: Set the device to correct misspelled and incomplete words by tapping the space bar.
- **Auto capitalisation**: Set the device to automatically capitalise the first character after a final punctuation mark, such as a full stop, question mark, or exclamation mark.
- **Auto spacing**: Set the device to automatically insert a space between words.
- **Auto-punctuate**: Set the device to insert a full stop when you double-tap the space bar.
- **Keyboard swipe**:
  - **None**: Set the device to deactivate the keyboard swipe feature.
  - **Continuous input**: Set the device to enter text by sweeping on the keyboard.
  - **Cursor control**: Enable the smart keyboard navigation feature to move the cursor by scrolling the keyboard.
  - **Flick input**: Enable or disable the keyboard to enter numbers or symbols when you tap a key and then flick your finger upwards.
- **Sound**: Set the device to sound when a key is touched.
- **Vibration**: Set the device to vibrate when a key is touched.
- **Character preview**: Set the device to display a large image of each character tapped.
- **Tap and hold delay**: Set the recognition time for tapping and holding the screen.
- **Reset settings**: Reset Samsung keyboard settings.

Google voice typing

To change the voice input settings, tap ⚙.

- **Choose input languages**: Select languages for text input.
- **Block offensive words**: Set the device to prevent the device from recognising offensive words in voice inputs.
- **Offline speech recognition**: Download and install language data for offline voice input.

Voice search

- **Language**: Select a language for voice recognition.
- **"Ok Google" hotword detection**: Set the device to begin voice recognition when you say the wake-up command while using the search app.



This feature may not be available depending on the region or service provider.

- **Speech output**: Set the device to provide voice feedback to alert you to the current action.
- **Block offensive words**: Hide offensive words from voice search results.
- **Offline speech recognition**: Download and install language data for offline voice input.
- **Personalised recognition**: Set the device to use information from your Google dashboard to improve speech recognition accuracy.
- **Bluetooth headset**: Set the device to allow voice input of search keywords via the Bluetooth headset microphone when a Bluetooth headset is connected.

Text-to-speech options

- **PREFERRED TTS ENGINE**: Select a speech synthesis engine. To change the settings for speech synthesis engines, tap ⚙.
- **Speech rate**: Select a speed for the text-to-speech feature.
- **Listen to an example**: Listen to the spoken text for an example.
- **Default language status**: View the status of the default language for the text-to-speech feature.

Mouseover

Activate the Mouseover feature. Perform various functions while the pointer of the mouse or trackpad connected to your device is moving over the screen.

- **Preview and icon labels**: Set the device to display a preview of the content or pop-up information when the pointer points at an item.
- **List scrolling**: Set the device to scroll through lists by moving the pointer to an edge of the screen.

Pointer speed

Adjust the pointer speed for the mouse or trackpad connected to your device.

Date and time

Access and alter the following settings to control how the device displays the time and date.

On the Settings screen, tap **General** → **Date and time**.

If the battery remains fully discharged or removed from the device, the time and date is reset.

- **Automatic date and time**: Automatically update the time and date when moving across time zones.
- **Set date**: Set the current date manually.
- **Set time**: Set the current time manually.
- **Automatic time zone**: Set the device to receive time zone information from the network when you move across time zones.
- **Select time zone**: Set the home time zone.
- **Use 24-hour format**: Display time in 24-hour format.
- **Select date format**: Select a date format.

Accessories

Change the accessory settings.

On the Settings screen, tap **General** → **Accessories**.

- **Audio output**: Select a sound output format to use when connecting your device to HDMI devices. Some devices may not support the surround sound setting.
- **Automatic unlock**: Set the device to unlock automatically when the cover is flipped open.

Battery

View the amount of battery power consumed by your device.

On the Settings screen, tap **General** → **Battery**.

- **Display battery percentage**: Set the device to display the remaining battery life.

Power saving

Activate power-saving mode and change the settings for power-saving mode. Refer to Power saving feature for more information.

On the Settings screen, tap **General** → **Power saving**.

- **Power saving mode**: Activate power-saving mode and change the settings for power-saving mode.
  - **Restrict background data**: Set the device to prevent apps that are running in the background from using a mobile data connection.
  - **Restrict performance**: Set the device to limit various options, such as turning off the Recent apps button and the Back button's backlight.
  - **Greyscale mode**: Set the device to display colours on the screen as grey tones.
- **Ultra power saving mode**: Extend standby time and reduce battery consumption by displaying a simpler layout and allowing limited access to an app.

The estimated maximum standby time shows the time remaining before the battery power runs out if the device is not used. Standby time may vary depending on your device settings and operating conditions.

Storage

View memory information for your device and memory card, or format a memory card.

On the Settings screen, tap **General** → **Storage**.

Formatting a memory card permanently deletes all data from it.

The actual available capacity of the internal memory is less than the specified capacity because the operating system and default apps occupy part of the memory. The available capacity may change when you upgrade the device.

Security

Change settings for securing the device.

On the Settings screen, tap **General** → **Security**.

- **Encrypt device**: Set a password to encrypt data saved on the device. You must enter the password each time you turn on the device.

  Charge the battery before enabling this setting because it may take more than an hour to encrypt your data.

- **Encrypt external SD card**: Set the device to encrypt files on a memory card.

  If you reset your device to the factory defaults with this setting enabled, the device will not be able to read your encrypted files. Disable this setting before resetting the device.

- **Remote controls**: Set the device to allow control of your lost or stolen device remotely via the Internet. To use this feature, you must sign in to your Samsung account.
  - **ACCOUNT REGISTRATION**: Add or view your Samsung account.
  - **Use wireless networks**: Set the device to allow location data collection or to determine the location of your lost or stolen device via Wi-Fi or mobile network.
- **SIM change alert**: Activate or deactivate the Find my mobile feature which helps locate the device when lost or stolen.

- **Go to website**: Access the Find my mobile website (findmymobile.samsung.com). You can track and control your lost or stolen device from the Find my mobile website.
- **Set up SIM card lock**:
  - **Lock SIM card**: Activate or deactivate the PIN lock feature to require the PIN before using the device.
  - **Change SIM PIN**: Change the PIN used to access SIM or USIM data.
- **Make passwords visible**: Set the device to display passwords as they are entered.
- **Device administrators**: View device administrators installed on the device. You can allow device administrators to apply new policies to the device.
- **Unknown sources**: Set the device to allow the installation of apps from unknown sources.
- **Verify apps**: Set the device to allow Google to check the apps for harmful content before installing them.
- **Security policy updates**: Set the device to check and download security updates.
- **Send security reports**: Set the device to automatically send the updated security reports to Samsung.
- **Storage type**: Set a storage type for credential files.
- **Trusted credentials**: Use certificates and credentials to ensure secure use of various apps.
- **Install from device storage**: Install encrypted certificates stored on the USB storage.
- **Clear credentials**: Erase the credential contents from the device and reset the password.

About device

Access device information, edit the device name, or update device software.

On the Settings screen, tap **General** → **About device**.

Applications

Application manager

View and manage the apps on your device.

On the Settings screen, tap **Applications** → **Application manager**.

Default applications

Select a default setting for using apps.

On the Settings screen, tap **Applications** → **Default applications**.

Call

Customise the settings for calling features.

On the Settings screen, tap **Applications** → **Call**.

Call settings

- **Call rejection**: Reject calls from specified phone numbers automatically. Add phone numbers to the reject list.
- **Answering and ending calls**:
  - **Pressing the home key**: Set the device to answer a call when you press the Home button.
  - **Using voice commands**: Set the device to answer or reject a call with voice commands.
  - **Pressing the power key**: Set the device to end a call when pressing the Power button.

- **Turn off screen during calls**: Set the device to turn on the proximity sensor during a call.
- **Call alerts**:
  - **Vibrate when answered**: Set the device to vibrate when the other party answers a call.
  - **Vibrate when call ends**: Set the device to vibrate when the other party ends a call.
  - **Call connect tone**: Activate or deactivate the call connection tone.
  - **Minute minder**: Activate or deactivate the minute minder tone.
  - **Call end tone**: Activate or deactivate the call disconnection tone.
  - **Notify during calls**: Set the device to alert you to events during a call.
- **Call accessories**:
  - **Automatic answering**: Set the device to answer a call automatically when a headset is connected.
  - **Automatic answering timer**: Set the length of time the device waits before answering a call.
  - **Outgoing call conditions**: Set the device to allow outgoing calls with a Bluetooth headset when the device is locked.
  - **Outgoing call types**: Select the type of outgoing calls to make when using a Bluetooth headset.
- **More settings**:
  - **Caller ID**: Display your caller ID to other parties for outgoing calls.
  - **Call forwarding**: Divert incoming calls to another number.
  - **Auto area code**: Set the device to automatically insert a prefix (area or country code) before a phone number.
  - **Call barring**: Block incoming or outgoing calls.
  - **Call waiting**: Allow incoming call alerts when a call is in progress.
  - **Auto redial**: Activate auto redial for calls that were not connected or that were cut off.
  - **Fixed Dialling Numbers**: Activate or deactivate FDN mode to restrict calls to numbers in the FDN list. Enter the PIN2 supplied with your SIM or USIM card.

Ringtone and sound settings

- **Ringtones and keypad tones**:
  - **Ringtones**: Add or select a ringtone for incoming calls.
  - **Vibrations**: Add or select a vibration pattern.
  - **Vibrate when ringing**: Set the device to vibrate and play a ringtone for incoming calls.
  - **Dialling keypad tone**: Set the device to sound when buttons on the keypad are tapped.

Video call settings

- **Hide my video**: Select an image to be shown to the other party.

Voicemail

- **Service provider**: Select your voicemail service provider.
- **Voicemail settings**: Enter the number to access the voicemail service. Obtain this number from the service provider.
- **Ringtones**: Select a ringtone for new voicemails.
- **Vibrate**: Set the device to vibrate when voicemails are received.

Internet call settings

- **Accounts**: Set the device to accept IP calls and set up your accounts for IP call services.
- **Use Internet calling**: Set whether to use IP call services for all calls or only for IP calls.

Contacts

Change settings for using contacts.

On the Settings screen, tap **Applications** → **Contacts**.

- **Import/Export**: Import or export contacts.
- **Contacts to display**: Select which contacts to display.
- **Only contacts with phones**: Set the device to display contacts that only have a phone number.
- **Sort by**: Select an option for sorting contacts.
- **Display contacts by**: Select an option for displaying contact names.
- **Service numbers**: View contact information of Samsung service centre and your service provider.
- **Send contact information**: Select a method to share contacts.
- **Accounts**: Add or edit the accounts to sync contacts with.

Email

Change settings for managing and sending emails.

On the Settings screen, tap **Applications** → **Email**.

General settings

- **Display**: Change the settings for displaying emails.
- **Composing and sending**:
  - **Default image size**: Select the size of attachment when you attach an image.
  - **Delay email sending**: Set the time the device waits before sending emails after you tap the send button.
- **Default display**: Set the device to open a specific screen after you delete emails.
- **Confirm deletions**: Set the device to request a confirmation before deleting messages.
- **Priority senders**: Change settings for priority senders.
- **Spam addresses**: Add email addresses to block.

ACCOUNT SETTINGS

Manage existing email accounts or add new accounts.

Gallery

Change settings for using **Gallery**.

On the Settings screen, tap **Applications** → **Gallery**.

- **Social network data management**:
  - **Sync via Wi-Fi only**: Set the device to sync content only when the Wi-Fi connection is activated.
- **Tags**:
  - **Tag buddy**: Set the device to display contextual tags.
  - **Face tag**: Register the faces in the image as face tags.

Internet

Change settings for using Internet.

On the Settings screen, tap **Applications** → **Internet**.

- **Account**: Sign in to a Samsung account.
- **Set homepage**: Set a default homepage.
- **Auto fill forms**: Set the device to automatically enter user information, such as names or phone numbers when you fill out forms on webpages.
- **Privacy**: Manage personal data when visiting webpages.
- **Screen and text**: Change the settings, adjust the font size, and more when viewing webpages.
- **Content settings**: Change the settings for managing cookies from visiting webpages or set whether or not to display pop-up windows, and more.
- **Bandwidth management**: Change the bandwidth settings.

Messages

Change settings for using messages.

On the Settings screen, tap **Applications** → **Messages**.

- **General settings**: Change various message settings, such as the default app to use and more.
- **Display**: Change settings for the messaging window, such as the background colour and more.
- **Signature settings**: Set the device to display your signature on the message.
- **Text message settings**: Change settings for text messages.
- **Multimedia message settings**: Change settings for multimedia messages.
- **Push message settings**: Set an interval for pop-up notifications that alert you to new messages.
- **Cell broadcast (CB) settings**: Set the device to receive cell broadcast messages.
- **Notification settings**: Set the device to alert you to new messages.
- **Spam message settings**: Set the device to block messages from specific numbers or that contain certain words.
- **Delay message sending**: Set the time the device waits before sending messages after you tap the send button.
- **Safe mode**:
  - **Allow access to all links**: Set the device to allow to open the link on a message when you tap the link.
  - **Potential threat alerts**: Set the device to alert you when you install apps that support messaging feature to prevent phishing.

S Planner

Change settings for using **S Planner**.

On the Settings screen, tap **Applications** → **S Planner**.

- **View settings**:
  - **First day of week**: Select the first day of a week.
  - **Show week number**: Set the device to display the number of weeks in a year.
  - **Hide declined events**: Set the device to hide expired events.
  - **Hide completed task**: Set the device to hide completed tasks.
  - **Weather**: Set the device to display the weather forecast.
- **Time zone**:
  - **Lock time zone**: Set the device to leave the time zone setting unchanged when moving across time zones.
  - **Select time zone**: Select the time zone.
  - **View today according to**: Set the calendar to use your home time zone or a selected time zone.
- **Event notification**:
  - **Select alert type**: Select the notification settings for events.
  - **Select ringtone**: Select a ringtone for events or tasks.
  - **Vibration**: Set the device to vibrate to alert you to events or tasks.
  - **Quick responses**: Select or create templates for sending messages to event participants.

S Voice

Change settings for voice recognition.

On the Settings screen, tap **Applications** → **S Voice**.

- **General**:
  - **Language**: Select a language for voice recognition.
  - **Hide offensive words**: Hide offensive words from voice search results.
  - **About**: View version information.
- **Wake-up**:
  - **Open via the home key**: Set the device to launch **S Voice** when you press the Home button twice.
  - **Voice wake-up**: Set the device to start voice recognition by saying a wake-up command while using **S Voice**.
- **Advanced**:
  - **Auto start speakerphone**: Set the device to automatically turn on the speakerphone when making a call with **S Voice**.
  - **Show body of message**: Set the device to display the text of a new message.
  - **Check missed events**: Set the device to launch **S Voice** and alert you to missed notifications when a headset is connected and you press the headset button.
  - **Personal briefing**: Set the device to display events saved in **S Planner** while using **S Voice**.
  - **Erase S Voice data**: Delete the data used by **S Voice** from the **S Voice** server.
  - **Home address**: Enter your home address to use location information with the voice command feature.
  - **Log in to Facebook**: Enter your Facebook account information to use Facebook with **S Voice**.
  - **Sign in to Twitter**: Enter your Twitter account information to use Twitter with **S Voice**.

Accessibility

About Accessibility

Accessibility menus are special features for those with certain physical disabilities, such as poor eyesight or hearing impairment. You can use the following features:

- TalkBack
- Changing the font size
- Magnifying the screen
- Notification reminders
- Reversing the display colours
- Colour adjustment
- Turning off all sounds
- Flash notification
- Adjusting the sound balance
- Mono audio mode
- Customising caption settings
- Assistive menus
- Setting tap and hold delay options
- Interaction control mode
- Changing the method of answering or ending calls
- Single tap mode
- Managing accessibility settings

To use accessibility menus, open the Apps screen, tap **Settings** → **Device** → **Accessibility**.

Using the Home button to open accessibility menus

You can access the following accessibility menus by pressing the Home button three times quickly.

- Accessibility
- TalkBack
- Negative colours
- Interaction control

On the Apps screen, tap **Settings** → **Device** → **Accessibility**, and then tap the **Direct access** switch to activate it. Then, select an accessibility menu to open when you press the Home button three times quickly.

If you select more than one menu, the device displays a pop-up window asking which menu to use each time you press the Home button three times quickly. To enable **Interaction control** on the accessibility menus, activate the feature. On the Apps screen, tap **Settings** → **Device** → **Accessibility** → **Dexterity and interaction**, and then tap the **Interaction control** switch to activate it.

Voice feedback (TalkBack)

Activating or deactivating TalkBack

When you activate TalkBack, the device reads aloud the text on the screen or selected features. This feature is useful if you have difficulty viewing the screen.

1 On the Apps screen, tap **Settings** → **Device** → **Accessibility** → **Vision** → **TalkBack**.

2 Tap the switch at the top of the screen to activate it.

To deactivate TalkBack, tap the switch at the top of the screen and tap anywhere on the screen twice quickly.

3 Tap **OK**.

To deactivate TalkBack, tap **OK** and tap anywhere on the screen twice quickly.

When you activate TalkBack, the device provides voice feedback and reads aloud the features you select. Also, the device provides voice feedback when the screen turns off, when you have new notifications, and more.

When you activate **Explore by touch** while using TalkBack, the device reads selected items aloud. Firstly, the device reads aloud items on the screen when you tap them. Then, the device will perform the function or open the app if you tap anywhere on the screen twice quickly. If **Explore by touch** is deactivated, the device cannot perform various features that require finger gestures.

To activate **Explore by touch**, open the Apps screen, tap **Settings** → **Device** → **Accessibility** → **Vision** → **TalkBack** → **Settings**, and then tick **Explore by touch**.

Some features are not available while you are using TalkBack.

Controlling the screen with finger gestures

You can use various finger gestures to control the screen while you are using TalkBack. If **Explore by touch** is deactivated, the device cannot perform some of the features that require finger gestures.

To activate **Explore by touch**, open the Apps screen, tap **Settings** → **Device** → **Accessibility** → **Vision** → **TalkBack** → **Settings**, and then tick **Explore by touch**.

- Exploring the screen: Place a finger on the screen and move your finger to explore the screen. Select and hold on an item and the device reads aloud the item. When you release your finger, the item under your finger is selected.
- Selecting items: Tap an item to select it. Or, select and hold on an item while exploring the screen, and then release your finger.
- Opening the selected item: While selected items are read aloud, when you hear the item you want, release your finger from the item. Then, tap anywhere on the screen twice quickly.
- Selecting the previous item: Scroll quickly upwards or to the left on the screen with one finger.

- Selecting the next item: Scroll quickly downwards or to the right on the screen with one finger.
- Scrolling the lists: Scroll the screen upwards or downwards with two fingers.
- Returning to the previous page: Scroll the screen to the right with two fingers.
- Moving to the next page: Scroll the screen to the left with two fingers.
- Unlocking the screen: Scroll the screen in any direction within the locked screen area with two fingers.
- Opening the notifications panel: Drag the top of the screen downwards with two fingers.
- Opening the quick setting panel: Drag the top of the screen downwards with three fingers.

You can configure finger gesture settings for TalkBack in **Manage gestures**. Refer to Configuring finger gesture settings for more information.

Configuring finger gesture settings

When you use TalkBack, you can perform actions using finger gestures. You can perform actions such as, returning to the previous screen, opening the Home screen, and more. Configure finger gestures before using them.

Configuring settings for vertical gestures

You can use two-part vertical gestures by dragging your finger upwards and downwards from the bottom of the screen, or vice versa.

On the Apps screen, tap **Settings** → **Device** → **Accessibility** → **Vision** → **TalkBack** → **Settings** → **Manage gestures** → **Two-part vertical gestures**. Then, select one of the following features:

- **Move to the first and last items on screen**: When you drag your finger upwards and then downwards on the screen, the first item at the top of the screen is selected. When you drag your finger downwards and then upwards on the screen, the last item at the bottom of the screen is selected.
- **Cycle through reading granularities**: When you drag your finger upwards and then downwards on the screen, the reading unit changes. The reading unit changes to page, paragraph, line, word, character, and default. When you drag your finger downwards and then upwards on the screen, the reading units change in reverse order.

Configuring settings for shortcut gestures

Use this feature to configure eight shortcut gestures. You can configure gestures such as, dragging your finger upwards and then to the right without releasing it, and more. You can change shortcut gestures or assign features to empty shortcuts.

On the Apps screen, tap **Settings** → **Device** → **Accessibility** → **Vision** → **TalkBack** → **Settings** → **Manage gestures**. Select a gesture, and then assign a feature to it.

The following features are available:

- **Back button**: Return to the previous screen.
- **Home button**: Open the Home screen.
- **Recent apps button**: Open the list of recently-used apps.
- **Open notifications**: Open the notifications panel.
- **Open global context menu**: Open the global contextual menu. Tap and hold the screen to open the circular global contextual menu. You can use features, such as **Quick navigation**, **Read from top**, **Spell last utterance**, and **Read from next item**. Then, explore menus by drawing a circle with your finger without releasing it. When you find the menu you want, release your finger from the menu to select it.

  Tap **Pause feedback** at the top left of the screen to pause voice feedback.

  Tap **TalkBack Settings** at the top right of the screen to access the TalkBack settings. Refer to Configuring settings for TalkBack for more information.
- **Open local context menu**: Open the local contextual menu. You can select a unit for reading text on the screen. When you use this feature while entering text, contextual menus, such as the cursor control menu, are available. Tap and hold the screen to open the circular contextual menu. Then, explore menus by drawing a circle with your finger without releasing it. When you find the menu you want, release your finger from the menu to select it.
- **Read from top**: Read items aloud from the first item to the last item in order.
- **Read from next item**: Read items aloud starting from the item next to the selected item in order.

Changing reading units

When you use TalkBack, you can listen to the text on the screen. You can drag your finger up, down, left, or right to select the text you want. By default, the device reads text aloud in the selected area. Or, you can set the device to read text in other reading units, such as lines or paragraphs.

Changing reading units by using the local contextual menu

1 Select some text to read.

2 Drag your finger upwards, and then to the right without releasing it to open the local contextual menu.

3 Tap and hold the screen and draw a circle with your finger to explore menus. Then, release your finger when you hear **Change granularity**.

4 Tap and hold the screen again and draw a circle with your finger to explore menus. Then, release your finger when you hear the reading unit you want.

To change the shortcut gesture to open the local contextual menu, refer to Configuring settings for shortcut gestures.

Changing reading units using two-part vertical gestures

When you drag your finger upwards and then downwards on the screen, the reading unit changes. The reading unit changes to page, paragraph, line, word, character, and then default. When you drag your finger downwards and then upwards on the screen, the reading units change in reverse order.

On the Apps screen, tap **Settings** → **Device** → **Accessibility** → **Vision** → **TalkBack** → **Settings** → **Manage gestures** → **Two-part vertical gestures** → **Cycle through reading granularities**.

You can listen to the text next to the currently-selected text using the current reading unit. To listen to the next section of text, drag your finger downwards or to the right on the screen. Also, you can listen to the text before the currently-selected text using the current reading unit. To listen to the previous section of text, drag your finger upwards or to the left on the screen.

Pausing TalkBack

Open the global contextual menu by dragging your finger downwards and then to the right on the screen without releasing it. When you select **Pause feedback** at the top left of the screen, TalkBack pauses.

When TalkBack is paused, you can resume it by turning on the screen or other methods. To change the method of resuming TalkBack, open the Apps screen, tap **Settings** → **Device** → **Accessibility** → **Vision** → **TalkBack** → **Settings** → **Resume from suspend**. Then, select an option.

To change the shortcut gesture to open the global contextual menu, refer to Configuring settings for shortcut gestures.

Using the quick navigation feature

With the quick navigation feature, you can access menus by drawing a circle on the screen without scrolling up or down to select an item.

Open the global contextual menu by dragging your finger downwards and then to the right on the screen without releasing it. Tap and hold the screen and draw a circle around the menu with your finger to explore the menus. Then, release your finger when you hear **Quick navigation**. Tap the screen again and draw a circle around the menu with your finger to explore the menus. Then, release your finger when you hear the menu you want.

Adding and managing image labels

You can assign labels to images on the screen. The device reads aloud the labels when the images are selected. Add labels to unlabelled images by using the local contextual menu.

Open the local contextual menu by dragging your finger upwards and then to the right on the screen without releasing it. Tap and hold the screen and a draw a circle around the menu with your finger to explore the menus. When you hear the add label menu, release your finger to add labels.

To view the labels, open the Apps screen, tap **Settings** → **Device** → **Accessibility** → **Vision** → **TalkBack** → **Settings** → **Manage customised labels**.

Configuring settings for TalkBack

Configure settings for TalkBack for your convenience.

On the Apps screen, tap **Settings** → **Device** → **Accessibility** → **Vision** → **TalkBack** → **Settings**. Alternatively, open the global contextual menu by dragging your finger downwards and then to the right on the screen without releasing it. Then, drag your finger to the top right of the screen and release it when you hear **TalkBack Settings**.

- **Speech volume**: Adjust the volume level for voice feedback.

  Voice feedback volume can vary depending on the media volume. To adjust the media volume, press the Volume button up or down while listening to voice feedback. Alternatively, on the Apps screen, tap **Settings** → **Device** → **Sound** → **Volume**, and then drag the volume adjustment bar for the media content to the left or right.
- **Use pitch changes**: Set the device to read aloud text at a low pitch when it is entered using a keyboard.
- **Keyboard echo**: Set the device to read aloud text or symbols entered using a keyboard. You can also set the type of keyboard to apply this feature to.
- **Speak when screen is off**: Set the device to provide voice feedback when the screen is turned off.
- **Use proximity sensor**: Set the device to pause voice feedback when you place your hand over the sensor at the top of the device. To resume voice feedback, tap the screen.
- **Shake to start continuous reading**: Set the device to read aloud the text displayed on the screen when you shake the device. You can select from various shaking speeds.
- **Speak caller ID**: Set the device to read the caller's name aloud when you have an incoming call.
- **Vibration feedback**: Set the device to vibrate when you explore the screen.
- **Sound feedback**: Set the device to emit a sound when you control the screen, such as scrolling the screen, and more.

- **Focus speech audio**: Set the device to turn the media volume down when the device reads an item aloud.
- **Sound volume**: Adjust the volume that sound is played when you touch the screen to control it. This feature is available when **Sound feedback** is selected.
- **Explore by touch**: Set the device to read aloud the items under your finger. For example, when you tap **Settings** on the Classic Home screen with your finger, the device reads out "**Settings**". To select **Settings**, release your finger from it and tap anywhere on the screen twice quickly. You can move to the page you want by scrolling the screen left or right with two fingers. To learn about controlling the screen using the explore by touch feature, refer to Controlling the screen with finger gestures for more information.
- **Automatically scroll lists**: Set the device to automatically scroll through the rest of the list not displayed on the screen and read the items aloud.
- **Single-tap selection**: Set the device to open the selected item by tapping it once.
- **Launch "Explore by touch" tutorial**: View the tutorial about using the Explore by touch feature.
- **Manage gestures**: Assign actions to perform using finger gestures. Refer to Configuring finger gesture settings for more information.
- **Manage customised labels**: View the labels you added.
- **Resume from suspend**: Select a method to resume voice feedback.
- **Developer settings**: Set options for app development.

Using the device with the screen turned off

Set the device to turn the screen off at all times to keep the content on your screen private. The screen does not turn on when you press external buttons or tap the screen. Also, currently-activated features do not turn off.

On the Apps screen, tap **Settings** → **Device** → **Accessibility** → **Vision**, and then tick **Dark screen**. You can activate or deactivate this feature by pressing the Power button twice.

Using the rapid key input feature

Set the device to enter a character when you release your finger from the character on the keyboard. You can use this feature to enter characters instead of releasing your finger and double-tapping on the screen.

On the Apps screen, tap **Settings** → **Device** → **Accessibility** → **Vision**, and then tick **Rapid key input**.

Reading passwords aloud

Set the device to read the password aloud when you enter the password while TalkBack is activated. Use this feature to make sure that you are entering the right password.

On the Apps screen, tap **Settings** → **Device** → **Accessibility** → **Vision**, and then tick **Speak passwords**.

Setting text-to-speech features

Change the settings for text-to-speech features used when TalkBack is activated, such as languages, speed, and more.

On the Apps screen, tap **Settings** → **Device** → **Accessibility** → **Vision** → **Text-to-speech options**, and then use the following functions:

- **Samsung text-to-speech engine** / **Google Text-to-speech engine**: Select an engine for the text-to-speech feature.
- **Speech rate**: Select a speed for the text-to-speech feature.
- **Listen to an example**: Listen to the spoken text for an example. If the device cannot read examples aloud, tap ⚙ → **Install voice data** to download and install voice data for the text-to-speech feature.
- **Default language status**: View the status of the current language set for the text-to speech feature.

Entering text using the keyboard

To display the keyboard, tap the text input field, and then tap anywhere on the screen twice quickly.

When you touch the keyboard with your finger, the device reads aloud the character buttons under your finger. When you hear the character you want, release your finger from the screen to select it. The character is entered and the device reads the text aloud.

If **Rapid key input** is not activated, release your finger from the character you want, and then tap anywhere on the screen twice quickly. To activate the rapid input feature, open the Apps screen, tap **Settings** → **Device** → **Accessibility** → **Vision**, and then tick **Rapid key input**.

Entering additional characters

Tap and hold a button on the keyboard. If additional characters are available via the button, a pop-up window appears above the keyboard showing the characters. To select a character, drag your finger on the screen until you hear the character you want, and then release it.

Changing the input language

To add input languages, open the Apps screen, tap **Settings** → **General** → **Language and input**. Then, tap ⚙ next to **Samsung keyboard** → **Select input languages**, and select the languages to use.

To change the input language, tap 🌐, and then tap anywhere on the screen twice quickly.

Editing text

Use the local contextual menu to move the cursor or copy and paste text.

Open the local contextual menu by dragging your finger upwards and then to the right on the screen without releasing it. Tap and hold the screen and draw a circle around the menu with your finger to explore the menu. Then, release your finger when you hear **Change granularity**. Tap the screen again and draw a circle around the menu to explore the menus. Then release your finger when you hear the reading unit you want.

When you edit text, set the reading unit to either word or character for your convenience. In selection mode, the device selects text according to the reading unit you selected.

Drag your finger up, down, left, or right to listen to the text. When the text you want to edit is read aloud, use the following actions:

- Deleting text: Tap the delete button on the keyboard.
- Selecting text using selection mode: Activate selection mode to select and listen to the text. To activate selection mode, open the local contextual menu and select **Cursor control** → **Start selection mode**. Scroll to the left or right to listen to the text before or next to the currently-selected text. To deactivate selection mode, open the local contextual menu and select **Cursor control** → **End selection mode**.
- Selecting entire text: Open the local contextual menu and select **Cursor control** → **Select all**. All text in the document will be selected.
- Copying or cropping text: Select text using the local contextual menu. Then, open the local contextual menu and select **Cursor control**. Select **Copy** to copy the selected text or select **Cut** to cut the selected text. The selected text is copied to the clipboard.
- Pasting text: Place the cursor at the point where the text should be inserted, open the local contextual menu, and then select **Cursor control** → **Paste**.

Entering text by voice

You can enter text by voice. To display the keyboard, tap the text input field, and then tap anywhere on the screen twice quickly.

When you tap and hold , the device displays a pop-up window showing the keyboard options. Drag your finger on the screen without releasing it. When is selected, release your finger. Then, say the words that you want to enter in the text field. The spoken words appear as text on the screen and the device reads them aloud.

To enter additional text, select the microphone button and say the words.

Changing the input language

While entering text by voice, select **English (UK)** and select a language to change the input language.

To add languages to the list, select **English (UK)** → **Add more languages**, deselect **Automatic**, and then select languages to use.

Changing the font size

Use this feature to change the font size. The device provides various font sizes to make the device more convenient for visually impaired users. Setting the font size to **Huge** may not be available in some apps.

On the Apps screen, tap **Settings** → **Device** → **Accessibility** → **Vision** → **Font size**.

Magnifying the screen

Use this feature to magnify the screen and to zoom in on a specific area.

On the Apps screen, tap **Settings** → **Device** → **Accessibility** → **Vision**, and then tap the **Magnification gestures** switch to activate it.

- Zooming in and out: Tap the screen three times quickly to zoom in on a specific area. Tap the screen three times quickly again to return.
- Exploring the screen by scrolling: Use two fingers to scroll through the magnified screen.
- Adjusting zoom ratio: Tap the screen with two fingers on the magnified screen. Then, spread two fingers apart or pinch them together to adjust the ratio.

- Keyboards on the screen cannot be magnified.
- When this feature is activated, the performance of some apps, such as **Phone** and **Calculator**, may be affected.

Setting notification reminders

Use this feature to alert you to notifications that you have not checked at the interval.

On the Apps screen, tap **Settings** → **Device** → **Accessibility** → **Vision** → **Notification reminder**, and then tap the switch at the top right of the screen to activate it.

To set an interval between alerts, tap **Reminder interval**.

Reversing the display colours

Use this feature to improve screen visibility and to help users recognise text on the screen more easily. When this feature is activated, the device displays a negative image that reverses the colours on the screen. Reversing the colours increases the contrast between black and white.

On the Apps screen, tap **Settings** → **Device** → **Accessibility** → **Vision**, and then tick **Negative colours**.

Colour adjustment

Use this feature to adjust how colours are displayed on the screen if you have difficulty in distinguishing colours. The device changes the colours into more recognisable colours.

1 On the Apps screen, tap **Settings** → **Device** → **Accessibility** → **Vision**.

2 Tap the **Colour adjustment** switch to activate it.

3 Tap **Start**.

4 Arrange the colour tiles in order of similarity, starting from the base colour.

5 When you are finished adjusting the colours, tap **Done**.

If you can distinguish the colours, no more adjustment is required.

6 If the colours cannot be distinguished, tap **Camera** or **Image**.

7 Drag the colour adjustment bar to the left or right and tap **Done**.

To readjust the colour, tap ⋮ → **Readjust colour**.

Setting flash notification

Set the flash to blink when you have incoming calls, new messages, or notifications.

On the Apps screen, tap **Settings** → **Device** → **Accessibility** → **Hearing**, and then tick **Flash notification**.

Turning off all sounds

Set the device to mute all device sounds, such as media sounds.

On the Apps screen, tap **Settings** → **Device** → **Accessibility** → **Hearing**, and then tick **Turn off all sounds**.

Caption settings

Samsung caption

On the Apps screen, tap **Settings** → **Device** → **Accessibility** → **Hearing** → **Samsung subtitles (CC)**, and then tap the switch at the top of the screen to activate it.

Use the following options:

- **Alignment**: Change the position of the caption.
- **Font**: Change the font type.
- **Size**: Change the font size.
- **Edge**: Change the edge of the subtitle text.
- **Font**: Change the colour and transparency of the text.
- **Background**: Change the colour and transparency of the caption box background.
- **Caption window**: Change the colour and transparency of the caption window.

Google caption

On the Apps screen, tap **Settings** → **Device** → **Accessibility** → **Hearing**, → **Google subtitles (CC)**, and then tap the switch at the top of the screen to activate it.

Use the following options:

- **Language**: Select a display language for the caption.
- **Text size**: Change the font size.
- **Caption style**: Change the caption style.

Adjusting the sound balance

Set the device to adjust the sound balance when using a headset.

To adjust the sound balance, connect a headset to the device. On the Apps screen, tap **Settings** → **Device** → **Accessibility** → **Hearing** → **Sound balance**. Drag the adjustment bar to the left or right and adjust the sound balance, and then tap **Set**.

Mono audio

Set the device to switch the sound output from stereo to mono when a headset is connected.

Mono output combines stereo sound into one signal that is played through all headset speakers. Use this if you have a hearing impairment or if a single earbud is more convenient.

On the Apps screen, tap **Settings** → **Device** → **Accessibility** → **Hearing**, and then tick **Mono audio**.

Assistant menu

Displaying the assistive shortcut icon

Set the device to display the assistive shortcut icon. You can use the icon to access apps, features, and settings by tapping assistive menus in the icon. Control the device by tapping the assistive menus in the icon without exploring the screen. When this feature is launched, **Single tap mode** is activated.

1 On the Apps screen, tap **Settings** → **Device** → **Accessibility** → **Dexterity and interaction**.

2 Tap the **Assistant menu** switch to activate it.

The assistive shortcut icon appears at the bottom right of the screen.

3 Tap **Assistant menu** → **Dominant hand** to move the assistive shortcut icon to a convenient location.

Accessing assistive menus

The assistive shortcut icon appears as a floating icon for easy access to the assistive menus from any screen.

When you tap the assistive shortcut icon, the icon expands slightly and the assistive menus appear on the icon. Tap the up or down arrow to move to other panels or scroll the screen up or down to select other menus.

Using the cursor

On the assistive menu, tap **Cursor**. A cursor and a touch area where the cursor can be controlled are displayed on the screen. You can control the screen using small finger movements on the touch area. Drag your finger on the touch area to move the cursor. Also, tap the screen to select items under the cursor.

Use the following options:

- ≪ / ≫ : Select an item or scroll left or right on the screen.
- ⌃ / ⌄ : Scroll up or down the screen.
- ✣ : Move the touch area to another location.
- ✕ : Close the touch area.

To change the cursor settings, open the Apps screen, tap **Settings** → **Device** → **Accessibility** → **Dexterity and interaction**, tap the **Assistant menu** switch to activate it, tap **Assistant menu**, and then use options under **TOUCHPAD AND CURSOR SETTINGS**.

Using enhanced assistive menus

Set the device to display enhanced assistive menus for selected apps. For example, when you launch **Messages**, searching and composing functions appear on the assistive menu.

On the Apps screen, tap **Settings** → **Device** → **Accessibility** → **Dexterity and interaction** → **Assistant menu** → **Assistant Plus**, tap the switch at the top of the screen to activate it, and then select apps.

Editing the assistive menus

You can use this feature to edit menus in the assistive shortcut icon.

On the Apps screen, tap **Settings** → **Device** → **Accessibility** → **Dexterity and interaction**, tap the **Assistant menu** switch to activate it, tap **Assistant menu**, and then tap **Edit**. To add or delete menus, tap ⊕ or ⊖.

Setting tap and hold delay options

Set the recognition time for tapping and holding the screen.

On the Apps screen, tap **Settings** → **Device** → **Accessibility** → **Dexterity and interaction** → **Tap and hold delay**, and then select an option.

Interaction control

Activate interaction control mode to restrict the device's reaction to inputs while using apps. Use this mode when you want to allow others only limited access to and control of your media or data.

1 On the Apps screen, tap **Settings** → **Device** → **Accessibility** → **Dexterity and interaction**.

2 Tap the **Interaction control** switch to activate it.

3 Press and hold the Home button and the Volume button down simultaneously while using an app.

4 Adjust the size of the frame or draw a line around an area that you want to restrict.

5 Tap **Done**.

The device displays the restricted area. If you tap the screen or press buttons, such as the Home button, they will not work in this area.

To deactivate interaction control mode, press and hold the Home button and the Volume button down simultaneously.

Answering or ending calls

Change the method of answering or ending calls.

On the Apps screen, tap **Settings** → **Device** → **Accessibility** → **Answering and ending calls**.

Use the following options:

- **Pressing the home key**: Set the device to answer a call when you press the Home button.
- **Using voice commands**: Set the device to answer a call with voice commands.
- **Pressing the power key**: Set the device to end a call when you press the Power button.

Using single tap mode

Set the device to control incoming calls or notifications by tapping the button instead of dragging it. When an alarm sounds or a call comes in, tap the button to stop the alarm or answer the call instead of dragging the button.

On the Apps screen, tap **Settings** → **Device** → **Accessibility**, and then tick **Single tap mode**.

Managing accessibility settings

Saving accessibility settings in a file

Export the current accessibility settings in a file.

On the Apps screen, tap **Settings** → **Device** → **Accessibility** → **Manage accessibility** → **Import/Export**, select an export option, and then tap **OK**. The accessibility settings file is saved to the selected storage location.

Importing an accessibility settings file

Import an accessibility settings file and update the current settings.

On the Apps screen, tap **Settings** → **Device** → **Accessibility** → **Manage accessibility** → **Import/Export**, and then select an import option. Select a file to import and tap **Done** → **OK**. The accessibility settings will be updated according to the imported file.

Sharing accessibility settings files

Share accessibility settings files with others via email, Wi-Fi Direct, Bluetooth, and more.

On the Apps screen, tap **Settings** → **Device** → **Accessibility** → **Manage accessibility** → **Share via**. Then, select accessibility files and tap **Done**. Select a sharing method and follow the on-screen instructions to share the files.

Viewing accessibility services

View accessibility services installed on the device.

On the Apps screen, tap **Settings** → **Device** → **Accessibility**, and view the list of accessibility services available in **SERVICES**.

Using other useful features

- Using S Voice: You can use **S Voice** to perform various functions using voice commands. Launch **S Voice** and make calls, send messages, and view tasks.
- Searching by voice: Use voice commands to search for webpage content. Use this feature when you are on the move and cannot use your hands to enter text. Refer to Voice Search for more information.
- Using the notifications panel: Drag the status bar downwards to open the notifications panel. You can view missed calls, new messages, adjust the screen brightness, and more. Refer to Notifications and quick setting panels for more information.
- Using control motions: Control the device with palm motions or gestures. Refer to Motions and gestures for more information.
- Using the finger scanner: Register your fingerprints to the device to unlock the screen or verify the Samsung account password. Refer to Finger Scanner for more information.
- Using shortcuts to contacts: Add shortcuts to contacts on the Classic Home screen to make calls or send messages more conveniently. Refer to Adding shortcuts for contacts to the Classic Home screen for more information.

Troubleshooting

Before contacting a Samsung Service Centre, please attempt the following solutions. Some situations may not apply to your device.

When you turn on your device or while you are using the device, it prompts you to enter one of the following codes:

- Password: When the device lock feature is enabled, you must enter the password you set for the device.
- PIN: When using the device for the first time or when the PIN requirement is enabled, you must enter the PIN supplied with the SIM or USIM card. You can disable this feature by using the Lock SIM card menu.
- PUK: Your SIM or USIM card is blocked, usually as a result of entering your PIN incorrectly several times. You must enter the PUK supplied by your service provider.
- PIN2: When you access a menu requiring the PIN2, you must enter the PIN2 supplied with the SIM or USIM card. For more information, contact your service provider.

Your device displays network or service error messages

- When you are in areas with weak signals or poor reception, you may lose reception. Move to another area and try again. While moving, error messages may appear repeatedly.
- You cannot access some options without a subscription. For more information, contact your service provider.

Your device does not turn on

- When the battery is completely discharged, your device will not turn on. Fully charge the battery before turning on the device.
- The battery may not be inserted properly. Insert the battery again.
- Wipe both gold-coloured contacts and insert the battery again.

The touch screen responds slowly or improperly

- If you attach a protective cover or optional accessories to the touch screen, the touch screen may not function properly.
- If you are wearing gloves, if your hands are not clean while touching the touch screen, or if you tap the screen with sharp objects or your fingertips, the touch screen may malfunction.
- The touch screen may malfunction in humid conditions or when exposed to water.
- Restart your device to clear any temporary software bugs.
- Ensure that your device software is upgraded to the latest version.
- If the touch screen is scratched or damaged, visit a Samsung Service Centre.

Your device freezes or has fatal errors

If your device freezes or hangs, you may need to close apps or reinsert the battery and turn on the device to regain functionality. If your device is frozen and unresponsive, press and hold the Power button and the Volume button down simultaneously for more than 7 seconds to restart it.

If this does not solve the problem, perform a factory data reset. On the Apps screen, tap **Settings** → **General** → **Backup and reset** → **Factory data reset** → **Reset device** → **Erase everything**. Before performing the factory data reset, remember to make backup copies of all important data stored in the device.

If the problem is still not resolved, contact a Samsung Service Centre.

Calls are not connected

- Ensure that you have accessed the right cellular network.
- Ensure that you have not set call barring for the phone number you are dialling.
- Ensure that you have not set call barring for the incoming phone number.

Others cannot hear you speaking on a call

- Ensure that you are not covering the built-in microphone.
- Ensure that the microphone is close to your mouth.
- If using a headset, ensure that it is properly connected.

Sound echoes during a call

Adjust the volume by pressing the Volume button or move to another area.

A cellular network or the Internet is often disconnected or audio quality is poor

- Ensure that you are not blocking the device's internal antenna.
- When you are in areas with weak signals or poor reception, you may lose reception. You may have connectivity problems due to issues with the service provider's base station. Move to another area and try again.
- When using the device while moving, wireless network services may be disabled due to issues with the service provider's network.

The battery icon is empty

Your battery is low. Recharge or replace the battery.

The battery does not charge properly (For Samsung-approved chargers)

- Ensure that the charger is connected properly.
- If the battery terminals are dirty, the battery may not charge properly or the device may turn off. Wipe both gold-coloured contacts and try charging the battery again.
- The batteries in some devices are not user-replaceable. To have the battery replaced, visit a Samsung Service Centre.

The battery depletes faster than when first purchased

- When you expose the battery to very cold or very hot temperatures, the useful charge may be reduced.
- Battery consumption increases when you use messaging features or some apps, such as games or the Internet.
- The battery is consumable and the useful charge will get shorter over time.

Your device is hot to the touch

When you use apps that require more power or use apps on your device for an extended period of time, your device may feel hot to the touch. This is normal and should not affect your device's lifespan or performance.

Error messages appear when launching the camera

Your device must have sufficient available memory and battery power to operate the camera app. If you receive error messages when launching the camera, try the following:

- Charge the battery or replace it with a battery that is fully charged.
- Free some memory by transferring files to a computer or deleting files from your device.
- Restart the device. If you are still having trouble with the camera app after trying these tips, contact a Samsung Service Centre.

Photo quality is poorer than the preview

- The quality of your photos may vary, depending on the surroundings and the photography techniques you use.
- If you take photos in dark areas, at night, or indoors, image noise may occur or images may be out of focus.

Error messages appear when opening multimedia files

If you receive error messages or multimedia files do not play when you open them on your device, try the following:

- Free some memory by transferring files to a computer or deleting files from your device.
- Ensure that the music file is not Digital Rights Management (DRM)-protected. If the file is DRM-protected, ensure that you have the appropriate licence or key to play the file.
- Ensure that the file formats are supported by the device. If a file format is not supported, such as DivX or AC3, install an app that supports it. To confirm the file formats that your device supports, visit www.samsung.com.

- Your device supports photos and videos captured with the device. Photos and videos captured by other devices may not work properly.
- Your device supports multimedia files that are authorised by your network service provider or providers of additional services. Some content circulated on the Internet, such as ringtones, videos, or wallpapers, may not work properly.

Another Bluetooth device is not located

- Ensure that the Bluetooth wireless feature is activated on your device.
- Ensure that the Bluetooth wireless feature is activated on the device you wish to connect to.
- Ensure that your device and the other Bluetooth device are within the maximum Bluetooth range (10 m).

If the tips above do not solve the problem, contact a Samsung Service Centre.

A connection is not established when you connect the device to a computer

- Ensure that the USB cable you are using is compatible with your device.
- Ensure that you have the proper driver installed and updated on your computer.
- If you are a Windows XP user, ensure that you have Windows XP Service Pack 3 or higher installed on your computer.
- Ensure that you have Samsung Kies or Windows Media Player 10 or higher installed on your computer.

Your device cannot find your current location

GPS signals may be obstructed in some locations, such as indoors. Set the device to use Wi-Fi or a mobile network to find your current location in these situations.

Data stored in the device has been lost

Always make backup copies of all important data stored on the device. Otherwise, you cannot restore data if it is corrupted or lost. Samsung is not responsible for the loss of data stored in the device.

A small gap appears around the outside of the device case

- This gap is a necessary manufacturing feature and some minor rocking or vibration of parts may occur.
- Over time, friction between parts may cause this gap to expand slightly.

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